

BELINEA

106040

MODEL

SERVICE MANUAL



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Safety Notices

Please Note:

The following information is provided in the interests of safety.

- 1). This equipment is mains powered (230 Volts AC) and is therefore potentially hazardous once the cover is removed.
- 2). Only trained engineering staff should attempt any work on the unit with the cover removed.
- 3). While servicing the unit , protect the mains supply to the equipment under test and all electrically powered test equipment with a suitably rated Residual Current Circuit Breaker (rccb) unit. These devices are readily available and are designed to remove the mains supply quickly in the event of a serious leakage of current to earth.
- 4). Ensure all test equipment, and the unit under test is adequately earthed .
- 5). Always discharge the CRT before attempting any work on the high voltage power circuits.
- 6). We advise the use of Electrostatic Damage Prevention equipment when servicing electronic equipment containing static sensitive devices.

SAFETY NOTICE

This service manual is prepared to assist engineers or technicians of repair centers who are in charge of servicing the monitors in the field. The service manual, therefore, is not for users but for those technically oriented service engineers from repair centers who are capable of servicing the unit.

This service manual explains the monitor's outline, detailed features, functions and basic construction of the individual unit or circuit, alignment procedure and the detailed TROUBLE-SHOOTING procedures.

The contents should be read and completely understood before attempting service.

- 1) Make sure the power cord is disconnected before opening the BACK-COVER of the monitor and replacing any parts in the unit.
- 2) While the monitor is in operation, do not attempt to connect or disconnect any wire.
- 3) When the power is on, do not attempt to short any portion of the circuit. This shorting may cause damage to the transistors, ic's or other parts in the unit.
- 4) Operation of the monitor with the cabinet or the BACK-COVER removed involves a shock hazard. The repair or service work on these models should only be performed by those who are thoroughly familiar with the precautions necessary when working on high voltage equipment.
- 5) Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while picture tubes are handled. Keep the picture tube away from the body while handling, & do not lift the picture tube by the neck.
- 6) When replacing a chassis in the monitor, all the protective devices must be put back in place, such as, barriers, NON-METALLIC KNOBS, adjustment and compartment shields, and isolation RESISTOR-CAPACITOR, ETC.
- 7) When service is required, observe the original lead dress. extra precaution should be taken to ensure correct lead dress in the high voltage circuitry area.
- 8) Always use the manufacturer's replacement parts. Especially critical parts as indicated on the circuit diagram should not be replaced by other manufacturer's. parts furthermore, where a short circuit has occurred, also replace those parts that indicate evidence of overheating.
- 9) Before returning a serviced monitor to the customer, the service technician must thoroughly test the unit to be sure that it is completely safe to operate without danger of electrical shock, and must ensure that no protective device built into the monitor by the manufacturer has become defective, or inadvertently defeated during servicing. Especially, the resistance of the connection between the protective earthing terminal and the parts required to be earth shall not exceed 0.1 ohm.

FINAL ALIGNMENT PROCEDURE

THIS ALIGNMENT PROCEDURE IS USED TO ADJUST / TEST THE PICTURE PERFORMANCE IN ORDER TO OBTAIN OPTIMUM CONDITIONS THE FOLLOWING SEQUENCE MUST BE FOLLOWED.

- * WARM UP FOR 30 MINUTES BEFORE PERFORMING EVERY TEST AND ALIGNMENT, CRT FACES TO EAST, ROOM BRIGHTNESS IS TO BE AT 500 LUX. MAKE SURE THE ANALOG SIGNAL LEVEL IS AT 0.7 Vp-p AND THEN INPUT THE SIGNAL.
- * THE FOLLOWING IS THE INITIAL SET UP BEFORE THE AUTO ALIGNMENT.

(a) PRE-CHECK AND ADJUSTMENT

1. ADJUSTMENT OF THE HIGH VOLTAGE :
 - a. INPUT 64KHZ 1028x1024 CROSS HATCH PATTERN, PRESS "6500" BUTTON OF THE FRONT CONTROL MEMBRANE SWITCH ONCE.
 - b. SET BOTH CONTRAST AND BRIGHTNESS LEVEL TO MAXIMUM. VERIFY IF THE HIGH VOLTAGE READS 26KV +/- 0.3KV, OTHERWISE ADJUST VRP1.
2. G1 VOLTAGE SET-UP :
 - a. INPUT 64KHZ 1028x1024 CROSS HATCH PATTERN.
 - b. SET BOTH CONTRAST AND BRIGHTNESS LEVEL TO MAXIMUM. VERIFY IF THE G1 VOLTAGE READS -55V +/- 0.5V, OTHERWISE ADJUST VR305.
3. X-RAY CHECK:
 - a. INPUT 64KHZ 1028x1024 CROSS HATCH PATTERN.
 - b. PARALLEL ON 27KR RESISTOR TO R325. THE SCREEN DISPLAY SHALL BE DISAPPEAR.
 - c. POWER OFF THE U.U.T AND REMOVE 27KR RESISTOR.
 - d. POWER ON THE U.U.T AGAIN. THE U.U.T SCREEN SHALL BE DISPLAY.
4. A.C.L. CIRCUIT SET-UP :
 - a. INPUT 64KHZ 1028x1024 FULL WHITE PATTERN.
 - b. ADJUST VR304, THE SCREEN DISPLAY SHALL BE CHANGED. THEN TURNING VR304 COUNTERCLOCKWISE UNTIL IT REACHES THE END.
5. POWER SAVING VERIFICATION:
 - a. INPUT 64KHZ 1028*1024 TIMING.
 - b. SWITCH OFF H-SYNC SIGNAL FROM THE SIGNAL INTERFACE BOX. THE POWER INDICATOR LED SHALL CHANGE THE EMITTING COLOR FROM GREEN TO ORANGE. SWITCH ON THE H-SYNC SIGNAL AGAIN.
 - c. SWITCH OFF V-SYNC SIGNAL. THE LED SHALL CHANGE THE EMITTING COLOR FROM GREEN TO ORANGE. SWITCH ON THE V-SYNC SIGNAL AGAIN.
 - d. SWITCH OFF BOTH H AND V SYNC SIGNALS. THE LED SHALL CHANGE THE EMITTING COLOR FROM GREEN TO ORANGE. SWITCH ON BOTH H AND V SYNC SIGNALS AGAIN.

(b) WHITE BALANCE AND BRIGHTNESS ADJUSTMENT: (FOR WHITE BALANCE MANUAL ADJUST USE ONLY)

1. CONNECT SIGNAL I/O CABLE FROM U.U.T TO SIGNAL INTERFACE BOX. POWER ON THE U.U.T.
2. CONNECT I2C BUS CABLE FROM PC-COMPUTER TO I2C CONNECTOR P809 ON THE D.M.C DAUGHTER BOARD OF THE U.U.T.
3. FIRMWARE DOWNLOAD: (FOR FIRMWARE UPDATE ONLY)
 - a. PRESS "F2" COMMAND KEY FROM THE KEYBOARD ONCE AND WAIT UNTIL THE "LOADING" DECAL DISAPPEARS FROM THE SCREEN.
 - b. PRESS "ENTER" KEY TWICE AND WAIT UNTIL THE MAIN ALIGNMENT MENU POPS UP ON THE SYSTEM SCREEN.
 - c. RECYCLE THE POWER ON/OFF SWITCH OF THE U.U.T TO WRITE DATA TO EEPROM.

4. RASTER CENTERING ADJUSTMENT: (FOR RASTER IS NOT IN THE CENTER OF THE BEZEL ONLY)
 - a. PRESS "CTRL" AND "F1" COMMAND KEYS SIMULTANEOUSLY. IF THE FIRMWARE REVISION OF THE U.U.T IS CORRECT, VDY4 WAVEFORM WILL POP UP ON THE SYSTEM SCREEN. OTHERWISE, A "WRONG FIRMWARE" DECAL WILL POP UP INSTEAD.
 - b. UTILIZE "INSERT" (+1), "DELETE" (-1), "HOME" (+5), AND "END" (-5) KEYS TO ALIGN THE RASTER IN THE HORIZONTAL DIRECTION.
 - c. PRESS "F8" COMMAND KEY ONCE TO SAVE THE CHANGE.
 - d. PRESS "8" NUMERICAL KEY ONCE AND REPEAT THE ABOVE STEPS TO ALIGN THE RASTER IN THE VERTICAL DIRECTION.
 - e. PRESS "F8" COMMAND KEY ONCE TO SAVE THE CHANGE.
 - f. PRESS "ESC" COMMAND KEY ONCE TO RETURN TO THE MAIN MENU.
5. USE DEGAUSSING COIL TO DEMAGNETIZE THE C.R.T FACE OF THE U.U.T.
6. VST1--VST8 SET-UP :
VST7,8 VOLTAGE HI (FF), VST4,5,6 VOLTAGE IS 1V (MEANS R,G,B DC VALUE SET UP); VST 1,2,3 VOLTAGE IS 2V (MEANS R,G,B GAIN SET UP)
7. B GUN CATHODE AMPLITUDE
INPUT 64KHZ 1028x1024, COLOR GREY LEVEL PATTERN.
ADJUST THE EXT. BRI. KEY TO MIN.; THEN ADJUST THE EXT. CONTRAST KEY TO MAX.
ADJUST VR303 UNTIL THE AMPLITUDE IS AT 38 Vp-p.
8. BRIGHTNESS OF RASTER SET-UP :
ADJUST THE EXT. BRI. KEY TO MAX.; AND ADJUST THE SCREEN VR UNTIL GET THE RASTER BRIGHTNESS IS APP. 1FL.
9. 6500 k WHITE BALANCE ADJUSTMENT:
HIGH/LOW BRIGHTNESS COLOR TEMPERATURE ALIGNMENT :
 - a. LOAD VST1--6 VALUE.
 - b. INPUT 60KHZ 1028x1024, 2" SQUARE PATTERN.
ADJUST VST7 UNTIL THE RASTER BRIGHTNESS IS APP. 0.08 FL.
ADJUST VST8 UNTIL 2" SQUARE BRIGHTNESS IS AT 2 FL.
ADJUST VST4,5 UNTIL $x = 0.313 \pm 0.01$, $y = 0.329 \pm 0.01$.
 - c. ADJUST VST7 UNTIL THE RASTER BRIGHTNESS IS AT 0.08 FL.
ADJUST VST8 TO MAX.
ADJUST VST1,2 UNTIL $x = 0.313 \pm 0.01$, $y = 0.329 \pm 0.01$.
 - d. REPEAT THE ALIGNMENT ACCORDING TO b & c PROCEDURE, UNTIL THE PICTURE BRIGHTNESS $x = 0.313 \pm 0.01$, $y = 0.329 \pm 0.01$.
10. 9300k WHITE BALANCE ADJUSTMENT:
HIGH/LOW BRIGHTNESS COLOR TEMPERATURE ALIGNMENT :
 - a. LOAD VST1--6 VALUE.
 - b. INPUT 64KHZ 1028x1024, 2" SQUARE PATTERN.
ADJUST VST7 UNTIL THE RASTER BRIGHTNESS IS APP. 0.08 FL.
ADJUST VST8 UNTIL 2" SQUARE BRIGHTNESS IS AT 2 FL.
ADJUST VST4,6 UNTIL $x = 0.281 \pm 0.01$, $y = 0.311 \pm 0.01$.
 - c. ADJUST VST7 UNTIL THE RASTER BRIGHTNESS IS AT 0.08 FL.
ADJUST VST8 TO MAX.
ADJUST VST1,3 UNTIL $x = 0.283 \pm 0.01$, $y = 0.298 \pm 0.01$.
 - d. REPEAT THE ALIGNMENT ACCORDING TO b & c PROCEDURE, UNTIL THE PICTURE BRIGHTNESS $x = 0.283 \pm 0.01$, $y = 0.298 \pm 0.01$.
11. MAIN TIMING (64KHZ 1028x1024) PERFORMANCE ALIGNMENT.
 - a. RASTER CENTERING: ADJUST VDY4 (H-DC), VDY8 (V-DC), UNTIL THE RASTER IS AT THE CENTER OF THE BEZEL.
 - b. V-PHASE: PLACE THE VERTICAL PICTURE IN THE CENTER OF THE RASTER.
 - c. V-SIZE: MAKE THE VERTICAL HEIGHT APP. 230mm.
 - d. PINCUSHION GAIN: MAKE THE PICTURE TO BE A STRAIGHT LINE.

- e. H-PHASE: CENTER THE PICTURE ON THE BEZEL, $| L-R | \leq 2 \text{ mm}$.
 - f. H-SIZE: MAKE THE HORIZONTAL WIDTH $287 \pm 3 \text{ mm}$.
 - g. PINCUSHION PHASE/BALANCE/WAVEFORM: PINCUSHION DISTORTION, MAKE THE PICTURE, $H \leq 1.5 \text{ mm}$.
 - h. V-LINEARITY: ADJUST VDY1 UNTIL THE VERTICAL LINE IS LESS THAN 7.5%
 - i. V-SIZE: MAKE THE VERTICAL HEIGHT $230 \pm 3 \text{ mm}$.
12. BRIGHTNESS ADJUSTMENT:
- a. INPUT 64KHZ 1028x1024, NO VIDEO INPUT.
 - b. PRESS "6500" BUTTON OF THE CONTROL MEMBRANE SWITCH ONCE
 - c. ADJUST THE EXT. "BRIGHTNESS" KEY AND "CONTRAST" KEY TO MAX. THEN ADJUST THE SCREEN VR ON THE FBT OF THE U.U.T TO MAKE THE ANALYZER READS BETWEEN 0.9-1.5 FL.
 - d. ADJUST THE EXT. "BRIGHTNESS" KEY UNTIL, SET-UP THE RASTER BRIGHTNESS IS 0.08 FL.
 - e. INPUT 2" SQUARE PATTERN, ADJUST EXT. "CONTRAST" KEY TO MAX. THEN ADJUST VR303 UNTIL TO MAKE THE DISPLAY CENTER BRIGHTNESS IS 45 FL $\pm 1 \text{ FL}$.
 - f. INPUT FULL WHITE PATTERN, ADJUST EXT. "CONTRAST" KEY TO MAX. THEN ADJUST VR304 UNTIL TO MAKE THE DISPLAY CENTER BRIGHTNESS IS 29 FL $\pm 1 \text{ FL}$.
- (c) WHITE BALANCE AND BRIGHTNESS ADJUSTMENT: (FOR WHITE BALANCE AUTO-ADJUST USE ONLY)
- 1. CONNECT SIGNAL I/O CABLE FROM U.U.T TO SIGNAL INTERFACE BOX. POWER ON THE U.U.T.
 - 2. CONNECT I2C BUS CABLE FROM PC-COMPUTER TO I2C CONNECTOR P809 ON THE D.M.C DAUGHTER BOARD OF THE U.U.T.
 - 3. FIRMWARE DOWNLOAD: (FOR FIRMWARE UPDATE ONLY)
 - a. PRESS "F2" COMMAND KEY FROM THE KEYBOARD ONCE AND WAIT UNTIL THE "LOADING" DECAL DISAPPEARS FROM THE SCREEN.
 - b. PRESS "ENTER" KEY TWICE AND WAIT UNTIL THE MAIN ALIGNMENT MENU POPS UP ON THE SYSTEM SCREEN.
 - c. RECYCLE THE POWER ON/OFF SWITCH OF THE U.U.T TO WRITE DATA TO EEPROM.
 - 4. RASTER CENTERING ADJUSTMENT: (FOR RASTER IS NOT IN THE CENTER OF THE BEZEL ONLY)
 - a. PRESS "CTRL" AND "F1" COMMAND KEYS SIMULTANEOUSLY. IF THE FIRMWARE REVISION OF THE U.U.T IS CORRECT, VDY4 WAVEFORM WILL POP UP ON THE SYSTEM SCREEN. OTHERWISE, A "WRONG FIRMWARE" DECAL WILL POP UP INSTEAD.
 - b. UTILIZE "INSERT" (+1), "DELETE" (-1), "HOME" (+5), AND "END" (-5) KEYS TO ALIGN THE RASTER IN THE HORIZONTAL DIRECTION.
 - c. PRESS "F8" COMMAND KEY ONCE TO SAVE THE CHANGE.
 - d. PRESS "8" NUMERICAL KEY ONCE AND REPEAT THE ABOVE STEPS TO ALIGN THE RASTER IN THE VERTICAL DIRECTION.
 - e. PRESS "F8" COMMAND KEY ONCE TO SAVE THE CHANGE.
 - f. PRESS "ESC" COMMAND KEY ONCE TO RETURN TO THE MAIN MENU.
 - 5. USE DEGAUSSING COIL TO DEMAGNETIZE THE C.R.T FACE OF THE U.U.T.
 - 6. WHITE BALANCE ADJUSTMENT:
 - a. HOOK MINOLTA COLOR ANALYZER'S PROBE ON TO THE U.U.T DISPLAY CENTER AND PRESS "F6" COMMAND KEY ONCE TO EXECUTE THE ALIGNMENT PROGRAM.

- b. A SUB-MENU WILL SHOW UP ON THE SCREEN. SELECT "OK" ICON UNDER ITEM "1", THEN ADJUST THE SCREEN VR ON THE F.B.T OF THE U.U.T TO MAKE THE ANALYZER READS BETWEEN 1.5-2.5 FL. PRESS "ENTER" KEY ONCE.
 - c. A "PRE-COLOR BALANCE ADJUST OK" WORDING WILL POP OUT ON THE SCREEN. ADJUST THE SCREEN VR ON THE F.B.T OF THE U.U.T TO MAKE THE ANALYZER READS BETWEEN 0.9-1.5 FL. PRESS "ENTER" KEY ONCE, SO THE WORDING WILL DISAPPEAR.
 - d. SELECT "OK" ICON UNDER ITEM "2" (WHITE BALANCE ADJUST). PRESS "ENTER" KEY ONCE TO START THE "6500 K" WHITE BALANCE ADJUSTMENT.
 - e. A "COLOR BALANCE ADJUSTMENT OK" WORDING WILL POP OUT ON THE SCREEN. PRESS "ENTER" KEY ONCE TO FINISH THE "6500 K" WHITE BALANCE ADJUSTMENT.
 - f. SELECT "OK" ICON UNDER ITEM "3" (SECOND WHITE BALANCE ADJUST). PRESS "ENTER" KEY ONCE TO START THE "9300 K" WHITE BALANCE ADJUSTMENT.
 - g. A "COLOR BALANCE ADJUSTMENT OK" WORDING WILL POP OUT ON THE SCREEN. PRESS "ENTER" KEY ONCE TO FINISH THE "9300 K" WHITE BALANCE ADJUSTMENT.
 - h. A "COLOR BALANCE ADJUSTMENT OK & WRITE EPROM" WORDING WILL POP OUT ON THE SCREEN. PRESS "ENTER" AND "ESC" KEY CONTIGUOUSLY TO EXIT THE PROGRAM.
 - i. RECYCLE THE POWER ON/OFF SWITCH OF THE U.U.T TO WRITE DATA INTO EEPROM
7. DATA DISPLAY SIZE SET UP:
USE FRONT CONTROL MEMBRANCE SWITCH TO SET THE DISPLAY SIZE TO 287MM*230 MM, VERTICAL AND HORIZONTAL RESPECTIVELY. DON'T PRESS "RECALL" BUTTON AT THIS MOMENT.
8. 6500 K BRIGHTNESS SET UP AND 6500 K/9300 K WHITE BALANCE VERIFICATION:
- a. PRESS 6500 K BUTTON ON THE FRONT CONTROL MEMBRANCE SWITCH.
 - b. SELECT "OK" ICON UNDER ITEM "4" (RASTER/2" PATTERN/WHITE PATTERN). PRESS "ENTER" KEY ONCE. THE FOLLOWING CHART IS TO BE USED TO VERIFY THE SETTING AND THE ADJUSTMENT.

ITEM	ADJUST NAME	PATTERN	BRI.	CONT.	ADJUST	SPEC
1	RASTER BRI.	RASTER	MAX.	MAX.	SCREEN-VR	0.9FL-1.5FL
2	RASTER BRI.	RASTER	-	-	EXT-BRI.	0.08FL
3	2" SQUARE	2" SQUARE	-	MAX.	VR303	45FL ± 1FL
4	FULL WHITE BRI.	FULL WHITE	-	MAX.	VR304	29FL ± 1FL
5	W/B CHECK(6500 K)	2" SQUARE	-	-	EXT-CONT.	2FL X:313±10 Y:329±10
6	W/B CHECK(6500 K)	2" SQUARE	-	-	EXT-CONT.	MAX.X:313±10 Y:329±10
7	W/B CHECK(9300 K)	2" SQUARE	-	-	EXT-CONT.	2FL X:283±10 Y:298±10
8	W/B CHECK(9300 K)	2" SQUARE	-	-	EXT-CONT.	MAX X:283±10 Y:298±10
9	27FL SET	FULL WHITE	-	-	EXT-CONT.	27FL ± 1FL

(d) MISCONVERGENCE AND FOCUS AND TILT ADJUSTMENT:

NOTE:

- * WARM UP U.U.T WITH BLACK BOX FOR AT LEAST 30 MINUTES.
- * C.R.T NECK FACES EARTH WEST.
- * MAGNETIC FIELD CHECK.

1. CONNECT SIGNAL I/O CABLE FROM U.U.T TO SIGNAL INTERFACE BOX. POWER ON THE U.U.T.
2. FOCUS VERIFICATION:
 - a. INPUT 64KHZ 1028*1024 OF THE TIMING, SELECT FULL WHITE PATTERN.
 - b. PRESS "EXT-BRI." BUTTON OF THE FRONT CONTROL MEMBRANCE SWITCH TO ADJUST THE RASTER DISAPPEARS.
 - c. PRESS "EXT-CONTRAST" BUTTON OF THE FRONT CONTROL MEMBRANCE SWITCH TO ADJUST THE BRIGHTNESS IS 29 FL.
 - d. SELECT "@" CHARACTER PATTERN. IF FOCUS IS NOT GOOD, ADJUST FOCUS VR.

3. TILT ADJUSTMENT:

- a. INPUT 64KHZ 1028*1024 OF THE TIMING, SELECT CROSS HATCH PATTERN.
- b. PRESS "TILT" BUTTON OF THE FRONT CONTROL MEMBRANCE SWITCH ONCE. PRESS "+" OR "-" BUTTON WHILE THE LED IS STILL LID TO ADJUST THE TILT TO LESS THAN 1mm.

4. MISCONVERGENCE ADJUSTMENT:

- a. INPUT 64KZ 1028*1024 OF THE TIMING, SELECT FULL WHITE PATTERN.
 - b. ADJUST THE EXT-BRI. KEY UNTIL THE RASTER DISAPPEARS. THEN ADJUST THE EXT-CONTRAST KEY UNTIL THE BRIGHTNESS IS 27 FL.
 - c. CHANGE THE PATTERN TO CROSS HATCH PATTERN.
 - d. USE KLEIN GAUGE TO VERIFY THE MISCONVERGENCE BETWEEN R/G, R/B, AND G/B IS IN THE SPEC. (A AREA $\leq 0.3\text{mm}$, B AREA $\leq 0.4\text{mm}$)
 - e. CORRECT THE MISCONVERGENCE BY USING A SMALL MAGNETIC STRIP OR BY ADJUSTING MAGNETIC 4 POLES ON THE YOKE.
5. EACH OF THE FOCUS VR, SCREEN VR, AND 4 POIES AND VR OF THE YOKE NEEDS TO PUT A WHITE DOT PAINT. EACH SMALL MAGNETIC STRIP AND MAGNETIC METAL NEEDS TO PUT A YELLOW BOND.

(e) PER-CHECK FOR C.A.S ALIGNMENT BEFOR:

1. CONFIRMATION OF IMAGE PERFORMACE :

INPUT EACH A/C's TIMING (HxV = 10x8 CROSS HATCH PATTERN).

CONFIRM ITEM BY ITEM AS FOLLOWS:

- a. HORIZONTAL LINEARITY: $H \leq 10 \%$.
CALCULATION: $\left| \frac{\text{max.} - \text{min.}}{\text{max.}} \right| \times 100\% \leq 10 \%$
 - b. CONFIRM THE FUNTION OF THE RECALL BUTTON:
ADJUST THE H/V PHASE AND THE H/V SIZE TO ANY POSITION, PRESS THE RECALL BUTTON, THEN CHECK THAT THE IMAGE PERFORMANCE IS IN ACCORDANCE WITH THE SPEC. IF YES, THIS MEANS THE RECALL BUTTON IS O.K.
2. BRIGHTNESS UNIFORMITY CONFIRMATION:
- a. INPUT 64KHZ 1028x1024 OF TIMING. SELECT 2" SQUARE PATTERN.
 - b. ADJUST THE EXT. BRI. KEY TO MAX.
 - c. ADJUST THE EXT. CONTRAST KEY UNTIL THE CENTER BRIGHTNESS IS 40 FL, THE BRIGHTNESS OF ANY POSITION OF CRT MUST NOT BE LESS THAN 65 % OF THE CENTER BRIGHTNESS.
3. STABILITY OF THE DISPLAY SIZE CONFIRMATION:
- a. INPUT 64KHZ 1028x1024 OF TIMING. SELECT FULL WHITE PATTERN.
 - b. ADJUST THE EXT-BRI. KEY TO 5FL AND THEN 29FL. THIS MUST NOT CAUSE A DIFFERENCE GREATER THAN 1.5 mm.
4. PURITY CONFIRMATION:
- a. INPUT 64KHZ 1028x1024 OF THE TIMING. SELECT FULL WHITE PATTERN.
 - b. ADJUST THE EXT-BRI. KEY UNTIL THE RASTER DISAPPEARS. THEN ADJUST THE EXT-CONTRAST KEY UNTIL THE BRIGHTNESS IS 25 FL. USE VISUAL INSPECTION TO CONFIRM THE PURITY OF EACH R.G.B. AS FOLLOWS:
 - a. WHEN ONLY INPUTING R, MUST NOT APPEAR G.B.
 - b. WHEN ONLY INPUTING G, MUST NOT APPEAR R.B.
 - c. WHEN ONLY INPUTING B, MUST NOT APPEAR R.G.
5. VIDEO NOISE CONFIRMATION:
INPUT 64KHZ 1028x1024 OF THE TIMING. SELECT CROSS HATCH PATTERN OR FULL WHITE PATTERN, CHECK BY VISUAL INSPECTION FROM A DISTANCE OF 19 INCHS, WHETHER THE PICTURE HAS VIDEO NOISE OR NOT.
6. CHECK ALL INTERFACE CABLES ARE WELL CONNECTED AMONG THE PALLET, I2C INTERFACE CARD, AND THE U.U.T DMC I2C CONNECTOR.
7. CLEAN THE C.R.T FACE OF THE U.U.T.
8. PUT THE U.U.T IN THE MARKED AREA ON THE TOP OF THE PALLET.
9. ALIGN THE U.U.T TO PARALLEL WITH THE PALLET.

10. POWER ON THE U.U.T AND BANG THE U.U.T TO FIND OUT IF THE SHOCK NOISE EXISTS.

(f) FOR C.A.S ALIGNMENT:

AFTER PER-CHECK ALL UNIT IS OK, THEN THE UNIT TO AUTO-STATION FOR C.A.S ADJUSTMENT AS BE LOW.

a. ADJUST H/V-RASTER CENTER.

b. ADJUST H/V-PHASE POSITION. | L-R | ≤ 2 mm, | T-B | ≤ 2 mm.

c. ADJUST H/V-SIZE. MAIN TIMING(64KHZ 1028*1024) OF THE H/V-SIZE IS 287mm*230mm ± 3 mm OTHER TIMINGS OF THE H/V-SIZE IS 300mm*225mm ± 3 mm.

d. ADJUST GEOMETIRIC OF THE PICTURE IS LESS THAN 1.5mm.

e. ADJUST VERTICAL LINEARITY OF PICTURE IS LESS THAN 7.5%.
| max. - min. / max. | x 100% $\leq 7.5\%$

F. HELMHOLTZ CHAMBER SET UP:

SET UP THE LOCATIONS ACCORDING TO THE CUSTOMER'S REQUIREMENT.

TIMING CHART

FACTORY MODE SETTINGS							
PARAMETER	MODE						
	1	2	3	4	5	6	
HORIZONTAL TIMING							
FH SYNC KHZ	64.310	77.172	56.476	48.08	48.363	37.88	
A H-TOTAL μ S	15.550	12.966	17.707	20.8	20.677	26.40	
B H-SYNC μ S	0.970	1.2232	1.813	2.40	2.092	3.20	
C H-BP μ S	2.24	1.7124	1.920	1.28	2.462	2.20	
D H-ACTIVE μ S	11.960	9.7853	13.653	16.00	15.754	20.000	
E H-FP μ S	0.370	0.2446	0.320	1.12	0.369	1.000	
VERTICAL TIMING							
fV SYNC HZ	60.000	72.556	70.07	72.19	60.000	60.32	
O V-TOTAL mS	16.561	13.782	14.271	13.853	16.666	16.579	
P V-SYNC mS	0.047	0.0389	0.106	0.125	0.124	0.1066	
Q V-BP mS	0.498	0.428	0.513	0.478	0.600	0.607	
R V-ACTIVE mS	15.923	13.277	13.598	12.480	15.880	15.840	
S V-FP mS	0.093	0.0389	0.053	0.770	0.062	0.026	
H/V SYNC POLARITY	+ / +	- / -	- / -	+ / +	- / -	+ / +	
DISPLAY SIZE HOR. unit : mm VER.	287 230	287 230	300 225	300 225	300 225	300 225	
RESOLUTION DOT LINE	1028 1024	1028 1024	1024 768	800 600	1024 768	800 600	
fPIXEL MHZ	107.23	130.00	75.000	50.000	65.00	40.00	
TEST MODE							

FACTORY MODE SETTINGS							
PARAMETER	MODE						
	7	8	9	10	11	12	
HORIZONTAL TIMING							
FH SYNC KHZ	37.861	35.52	35.16	31.47	31.47	31.47	
A H-TOTAL μ S	26.413	28.150	28.444	31.777	31.777	31.777	
B H-SYNC μ S	1.270	3.920	2.0	3.813	3.813	3.813	
C H-BP μ S	4.064	1.247	3.556	1.907	1.907	1.907	
D H-ACTIVE μ S	20.318	22.810	22.222	25.417	25.417	25.417	
E H-FP μ S	0.762	0.178	0.667	0.635	0.635	0.635	
VERTICAL TIMING							
FV SYNC HZ	72.800	86.96	56.25	70.08	70.08	59.940	
O V-TOTAL mS	13.735	11.485	17.778	14.268	14.268	16.683	
P V-SYNC mS	0.079	0.112	0.057	0.0636	0.063	0.06366	
Q V-BP mS	0.739	0.563	0.626	1.907	1.112	1.049	
R V-ACTIVE mS	12.678	10.81	17.067	11.122	12.711	15.253	
S V-FP mS	0.237	0.00	0.0284	1.176	0.381	0.318	
H/V SYNC POLARITY	- / -	+ / +	+ \ +	+ \ -	- / +	- / -	
DISPLAY SIZE HOR. unit : mm VER.	300 225	300 225	300 225	300 225	300 225	300 225	
RESOLUTION DOT LINE	640 480	1024 768	800 600	640 350	640 400	640 480	
fPIXEL MHZ	31.500	44.91	36.00	25.189	25.189	25.189	
TEST MODE							

1. CATEGORY COLOR LANDSCAPE
2. CRT SIZE: 17"
- PHOSPHOR: P22 MEDIUM SHORT
- DEFLECTION ANGLE: 90°
- DOT PITCH 0.27 mm
- X'MISSION RATE: 53.5%
3. f-SYNC. MULTI-SYNC
- f-H: 31 -- 82 KHZ f-V: 50 -- 90 HZ

4. RESOLUTION

MODE NO	Hf KHz	Vf Hz	DOT x LINE
01	64.310	60.00	1024 x 1024
02	77.172	72.556	1028 x 1024
03	56.476	70.07	1024 x 768
04	48.083	72.19	800 x 600
05	48.363	60.00	1024 x 768
06	37.861	72.8	640 x 480
07	37.88	60.32	800 x 600
08	35.52	86.96	1024 x 768
09	35.26	56.25	800 x 600
10	31.47	59.94	640 x 480
11	31.47	70.08	640 x 400
12	31.47	70.08	640 x 350

5. POWER SUPPLY :

- * POWER SUPPLY TYPE: UNIVERSAL SEGMENTED
- * A/C LINE VOITAGE RANGE: 88 VAC - 132 VAC , 180 VAC - 264 VAC
- * A/C LINE FREQUENCY RANGE: 50+-3 HZ, 60+-3 HZ
- * POWER CONSUMPTION : < 150 W
- * DEGAUSS: AUTOMATIC AND MANUAL
- * POWER MANAGEMENT:

APM STATE	POWER SAVINGS	AUTOMATIC RECOVERY TIME
ON	NONE	NOT APPLICABLE
STAND-BY	MINIMAL<25W	SHORT RECOVERY
SUSPEND	SUBSTANTIAL<25W	LONGERRECOVERY ALLOWED
OFF	MAXIMUM<5W	SYSTEM DEPENDENT

NOTE: THE POWER INDICATOR LED COLOR IS GREEN IN THE ON STATE,ORANG
STAND-BY,SUSPEND AND IN THE OFF STATE.

6. EXTERNAL CONTROL POWER SWITCH ADVANCED DIGITAL CONTROLS

7. MAGNETIC FIELD: H=0.01 V=0.49 GAUSS

Parts List 's' Indicates Standard Spare Part

SPARE	Item Number	Description	COMMENT
S	1002096320	COVER REAR	
S	1004096320	CONTROL DOOR	
	1005094700	TILT BALL	
	1006094251	RETAINER	
	1009094238	LATCH	
S	1010094310	FOOT	
S	101509433P	DOOR LOCK	
S	1020094623	BASE-2	
	2004694251	CHASSIS TOP	
	2039094330	ANODE CAP	
	8037114016	SCREW BIND(+) M4X16 HI-LOW	FOR TILT BALL & LATCH
	8081111530	SCREW BIND/HD MACH 1/4"-20X30	
	8127113006	SCREW PAN(+)/HD CAP TAPPING M3	CHAS TOP & CHAS R X2, CHAS TOP & CHAS L X2
	8350113016	SCREW BIND(+) M3X16 W/S W.F.W.	FOR B2L & CHAS & R.L. ASS'YX4
	8504113006	SCREW BID(+) M3X6 MACH W/DISK	CHAS REAR & CHAS TOP X1
	9004096320	COVER I2C	
	9012096332	MANUAL	
	9019094330	ANODE SHEET	
	C488100009	CONN. 10P & WIRE ASS'Y	FOR BNC
	4490100208	CONN. BNC 180 DEGREE BNB-001	FOR INPUT
	C459423L10	GND WIRE ASS'Y	FOR FILTER
	C488030174	CONN. 3P & WIRE CORE ASS'Y	FILTER TO SW
	4050247455	RES-CF 1/2W J 470K -AT-	R99
	5290003000	TUBE-SHRINK ID=3c	
	5290005000	TUBE-SHRINK ID=5c	
S	7061620129	LINE FILTER IA5-H33	FILTER
	2004094660	HEAT SINK HOLDER	FOR D304
	2010196330	CHASSIS REAR	
	3060040060	RIVET NYLON 4.0X6.0	FOR PCB & CHAS REAR
S	410024288A	TRS.2SC4288A TO-3PL	FOR Q307
S	4100310180	TRS. 2SD1018 W/MOUNTING KIT	Q320
S	4101511010	TRS. MOSFET 2SK1101 SC-67	Q314
S	4130400260	DIODE FMGG26S TO-220	D306
S	4130600032	DIODE DTV32-1500B	D304
	5510102500	TUBE SI-RUBBER 45T-11cX25L	FOR D304
	5520100005	INSULATOR SI-RUBBER TO-3P	FOR Q307,320
	8026113010	SCREW BIND(+) TAPPING M3X10 TR	FOR Q314,D306 & CHAS REAR
	8026113012	SCREW BIND(+) ZN3C M3X12 SELF	FOR Q307,320
	8026113014	SCREW TRI "B" M3X14	FOR H/S HOLDER & CHAS REAR
	1006096330	SNAP BUSHINGS (NB1722)	FO STAND X2
	1013094180	REVL T c3	FOR I2C COVER
	2001096320	STAND (5 BNC)	
	2003096320	BKT UPPER	
	3011100030	NUT ISO HEX M3 Z1NC	FOR AC SOCKET X2
	3211300000	WASHER SPRING M3 5.2cX3.2cX0.8	FOR AC SOCKET
	4410501143	MEMBRANCE SWITCH CAM6330	
	5541025160	CABLE TIE-BINDING 2.5X160	FOR CORE & STAND X3
	8002113012	SCREW FLATE HD(+) M3X12	FOR AC SOCKET
	8127113006	SCREW PAN(+)/HD CAP TAPPING M3	FOR BKT UPPER & STAND ASS'Y
	8504113006	SCREW BID(+) M3X6 MACH W/DISK	FOR POWER SW PCB
	9005096320	DECO PLATE (5 BNC)	
	9007096320	DECO SHEET R	
	9008096320	DECO SHEET L	
	9010096320	SW INSULATOR	
	C001134720	BRAID WIRE ASS'Y	
	C460633010	TILT RING WIRE ASS'Y	TILT WIRE
	C488040051	CONN. 4P & WIRE ASS'Y W/CORE	FOR YOKE
S	C710633010	I/O CABLE ASS'Y	FOR HCS2
	1003096330	KNOB PUSH	
	1006096330	SNAP BUSHINGS (NB1722)	FOR CRT FRAME
	1009096332	CONTROL BOX	
S	1022194A39	BEZEL	
	1023094000	BUSHING SNAP	FOR CHASSIS BOTTOM X1
	1023096330	KNOB PUSH	
	2001694235	CRT FRAME	
	2002094660	CHASSIS (R)	
	2004096320	BKT LOWER	
	2008094251	BKT BEZEL	
	2008096000	CHASSIS (L)	
	2012096710	CHASSIS L	
	2013096320	FINGER (B)	FOR CRT FRAME & CHAS R
	2016094230	STUD M3X12	VIDEO BOARD X4

2017094030 GROUND CLAMP
 2018094140 TOOTHED LOCK WASHER
 2024094660 CHASSIS (BTM)
 2027094660 CONDUCTOR
 2046094330 CRT FINGER
 3051100050 NUT ZINC CHROMATE M5
 3111502016 FLAT WASHER M5 T=1.6
 5530200101 CORD CRAMP TH-C
 5530200102 CORD CRAMPER TH-A
 5530307005 SUPPORT PCB CBS-8K
 5541025095 CABLE TIE 2.5X90
 5541025160 CABLE TIE-BINDING 2.5X160
 S 7010021117 CRT M41KXK27XX10 (K1)
 7020176330 DEGAUSSING COIL
 8026113006 SCREW BIND(+) TAPPING TRI ANGL
 8026113012 SCREW BIND(+) ZN3C M3X12 SELF
 8121114008 SCREW CAP BID(+) M4X8 TAPPING"
 8127113006 SCREW PAN(+)/HD CAP TAPPING M3

 8504113006 SCREW BID(+) M3X6 MACH W/DISK
 8504113008 SCREW BIND(+) M3X8 MACH W/DISK
 8504113010 SCREW BIND(+) M3X10 MACH W/DIS
 9005096332 NAME PLATE

FOR I/O CABLE
 CRT & CRT FRAME X4

CRT & CRT FRAME X4
 CRT & CRT FRAME X4
 CHAS R X3, CHAS REAR X2
 FOR CHAS L X1
 FOR POWER SAVING & CHASSIS R X3
 FOR WIRE ASS'Y

FOR CRT
 FOR CRT FRAME & CRT FINGER X12
 BZL & BKT X8
 CHAS BTM I/O GNDX2, CHAS REAR MAIN GND X1
 CHAS REAR & CHAS BOTTOM X2
 , CHAS REAR & CHAS R X2, CHAS REAR & CHAS L X2, CRT F
 RAME & STAND X2, WIRE & CHAS R X1, CRT FRAME & CHAS
 BOTTOM X2, CHAS BOTTOM & CHAS R X2, CHAS BOTTOM & CH
 AS L X2, CRT FRAME & CHAS L X2, LOWER BKT UPPER & ST
 AND ASS'Y X 6, CRT FRAME & CHAS R X2
 FOR VIDEO BOARD X4, CHAS R & STUD X4, POWER SW. PCB X
 1
 FOR CONTROL BOX & UPPER BKT X1, CONTROL BOX & LOWE
 R BKT X3, MAIN PCB & CHAS BOTTOM X6
 FOR BZL ASS'Y & CHAS ASS'Y

END

SPARE	Item Number	Description	COMMENT
S	SS63320220-404	LED & PCB ASS'Y	
	C488030192	CONN. 3P WIRE ASS'Y	FOR SK903
S	4120694000	LED LT9463-23 Y/G	
S	4141103900	P.C.B. LED (28.5X12.3)	
			END

SPARE	Item Number	Description	COMMENT
S	SS63320320-404	POWER SWITCH PCB ASS'Y	
	C488030173	CONN. 3P & WIRE ASS'Y	SW TO PCB
S	4141102900	PCB SW 76X43.5	
S	4410204004	SWITCH POWER SDDS32B7U-CK	SWITCH
	4490310193	CONN. 3P WAFER 2 OPEN RIGHT	SK6
			END

SPARE	Item Number	Description	COMMENT
S	AM63300244-V	NECK PCB ASS'Y (SUB-2)	
	2014096330	VIDEO SHIELD	
	2022094660	COVER VIDEO	
	4010800052	RES-CHIP 1/8W J OR 1206	JD1,2
	4010810052	RES-CHIP 1/8W J 10R 1206	RE5
	4010810352	RES-CHIP 1/8W J 10K 1206	RD1
	4010812252	RES-CHIP 1/8W J 1.2K 1206	RD4
	4010839152	RES-CHIP 1/8W J 390R 1206	RA3,RB3,RC3
	4010839252	RES-CHIP 1/8W J 3.9K 1206	RD7
	4010847452	RES-CHIP 1/8W J 470K 1206	RD5
	4010856152	RES-CHIP 1/8W J 560R 1206	RE2
	4010875052	RES-CHIP 1/8W J 75R 1206	RA1,RB1,RC1
	4010882252	RES-CHIP 1/8W J 8.2K 1206	RD3
	4010891052	RES-CHIP 1/8W J 91R 1206	RA2,RB2,RC2,RD2,RE1
	4010891152	RES-CHIP 1/8W J 910R 1206	RE3,RE4
S	412014148T	DIODE 1N4148 (BAS32L) MLF SMD	DA1,2,DB1,2,DC1,2
S	4120500561	DIODE ZENER RD5.1EB2 1/2W -AT-	ZD1
S	4141093504	P.C.B. DAUGHTER (57.1X50.2)	
S	4159120500	IC LM1205N 28PIN	ICD1
S	4159188100	IC LM1881N 8PIN	ICD2
	5156100T50	CAP-EC6 10UFM 50V -RT-	CD1,CD3,CE5
	5156470T16	CAP-EC6 47UFM 16V -RT-	CD9
	5171105L35	CAP-TC 1UFK 35V RT PITCH:5MM	CA2,CB2,CC2
	5171106L16	CAP-TC 10UFK 16V RT PITCH:5MM	CA1,CB1,CC1
	7146223456	CAP-Y5V 0.022UFZ 50V CHIP 0805	CD8
	7147104456	CAP-CC +80%-20% 0.1UF/50V CHIP	CA3,CB3,CC3,CC4,CD2,CD4,CD5,CD7,CE1-CE4
	2043394330	HEAT SINK	FOR Q401,421,441
	3011100030	NUT ISO HEX M3 Z1NC	
S	41061262A0	TRS. Bfq262A TO-126	FOR Q401,421,441
	5520542001	INSULATOR CERAMIC TO-126	FOR Q401,421,441
	8504113012	SCREW BIND(+) M3X12 MACH W/DIS	FOR Q401,421,441
	C488020156	CONN. 2P & WIRE ASS'Y W/CORE	FOR R.G.B
S	4106116200	TRS. Bfq162 TO-126	Q402,422,442
S	41061235A0	TRS. Bfq235A TO-220	Q403,423,443
S	41061255A0	TRS. Bfq255A TO-220	Q404,424,444
S	4173010253	RES-MOF 3W J 1K -SF-	R417,437,457
S	4173012253	RES-MOF 3W J 1.2K -SF-	R409,410,429,430,449,450
	4490200300	BASE 2P 2.54MM SXB-XH-A	P405
	4490300320	CONN. 3P WAFER 173979 R/A	P201
	4490400300	CONN. 4P SXB-XH	P401
	4490600300	CONN. 6P SXB-XH-A	P404
	4491000300	BASE 10P 2.54MM SXB-XH-A	P403
	4491100320	WAFER 11P 2.0mm 173979 R/A	P420
	5074104101	CAP-MEF 0.1UFK 100V -SF-	C480,481,499
	5074224102	CAP-MEF 0.22UFK 250V -SF-	C407,427,447
	515X470S01	CAP-ECX 47UFM 100V -SF-	C476,477
S	411020945P	TRS. ZSC945P TO-92 -RT-	Q461
S	4110219210	TRS. ZSC1921 TO-92M -RT-	Q405,425,445
	5116103111	CAP-MC 0.01UFK 100V -RT-	C492
	5128101552	CAP-CCSL 100PFJ 50V -RT-	C485
	5128121552	CAP-CCSL 120PFJ 50V -RT-	C446,479
	5128221552	CAP-CCSL 220PFJ 50V -RT-	C409,429
	5128331552	CAP-CCSL 330PFJ 50V -RT-	C484
	5128390552	CAP-CCSL 39PFJ 50V -RT-	C426
	5134104452	CAP-SCF 0.1UFZ 50V -RT-	C405,425,445,466,483
	515X221T16	CAP-ECX 220UFM 16V -RT-	C490
	515X470T16	CAP-ECX 47UFM 16V -RT-	C428,448
	5156470T16	CAP-EC6 47UFM 16V -RT-	C491
	5171106T25	CAP-TC 10UFM 25V RT	C408
	4050115255	RES-CF 1/2W J 1.5K -AT- SMALL	R413,433,453
	4050224055	RES-CF 1/2W J 24R -AT-	R407,427,447
	4050233955	RES-CF 1/2W J 3.3R -AT-	R461
	4050256255	RES-CF 1/2W J 5.6K -AT-	R404,424,444
	4050410055	RES-CF 1/4W J 10R -AT-	R411,412,431,432,451,452
	4050410155	RES-CF 1/4W J 100R -AT-	R202,408,428,448,485
	4050410255	RES-CF 1/4W J 1K -AT-	R473,481,486
	4050410355	RES-CF 1/4W J 10K -AT-	R474,475
S	4050410555	RES-CF 1/4W J 1M -AT-	R416,436,456
	4050412155	RES-CF 1/4W J 120R -AT-	R415,435,455
	4050420055	RES-CF 1/4W J 20R -AT-	R401,403,405,421,423,425,443,445
	4050427155	RES-CF 1/4W J 270R -AT-	R414,434,454
	4050443055	RES-CF 1/4W J 43R -AT-	R406,426,446
	4050443155	RES-CF 1/4W J 430R -AT-	R472
	4050451355	RES-CF 1/4W J 51K -AT-	R402,422,442
S	4120141480	DIODE 1N4148 (S1) -AT-	D403-406,423-426,443-446
S	4120500561	DIODE ZENER RD5.1EB2 1/2W -AT-	D463,465
S	4141090703	P.C.B. NECK	

4321828006 COIL PEAKING 0.82UH -AT-
4322209046 FERRITE BEAD 2UH -AT-
4322309006 FERRITE BEAD 3UH -AT-
5406100000-000 JUMP WIRE 0.6e

L401,421,441
L445
L461,462
J401,402,404-414,417-421,L404,405,424,425,444,R201

END . -----

SPARE	Item Number	Description	COMMENT
S	AM63300544-V	POWER SAVING PCB (SUB-2)	
	C488060047	CONN.6P & WIRE ASS'Y	FOR SK904
	4050451355	RES-CF 1/4W J 51K -AT-	R923 (FOR HITACHI/TOSHIBA IC74HC123)
	4050475455	RES-CF 1/4W J 750K -AT-	R925 (FOR HITACHI/TOSHIBA IC74HC123)
S	4155741230	IC 74HC123	IC904
S	4159140130	IC MC14013 BCP	IC905
S	4159339000	IC LM339 16PIN	IC902,903
	4490300130	CONN. 3P WAFER 2.5MM (B3B-XH-A)	SK903
	4490800130	CONN. 8P B8B-XH-A	SK902
S	4110105610	TRS. 2SB561 TO-92 -RT-	Q902
S	411030667A	TRS. 2SD667A TO-92M -RT-	Q903
S	415978L05A	IC. MC78L05 TO-92 3PIN	IC901
	5116102111	CAP-MC 0.001UFK 100V -RT-	C906,914
	5116103111	CAP-MC 0.01UFK 100V -RT-	C904,911
	5116104111	CAP-MC 0.1UFK 100V -RT-	C909
	5116222111	CAP-MC 0.0022UFK 100V -RT-	C905,908,910
	515X100T50	CAP-ECX 10UFM 50V -RT-	C902,903
	515X221T10	CAP-ECX 220UFM 10V -RT-	C912
	5156221T35	CAP-EC6 220UFM 35V -RT-	C901
	4050215355	RES-CF 1/2W J 15K -AT-	R926
	4050220155	RES-CF 1/2W J 200R -AT-	R937
	4050410255	RES-CF 1/4W J 1K -AT-	R901,904,928,938
	4050410355	RES-CF 1/4W J 10K -AT-	R903,910-913,934
	4050420255	RES-CF 1/4W J 2K -AT-	R929
	4050422355	RES-CF 1/4W J 22K -AT-	R905-907,909,921
	4050424255	RES-CF 1/4W J 2.4K -AT-	R920
	4050447155	RES-CF 1/4W J 470R -AT-	R935
	4050447255	RES-CF 1/4W J 4.7K -AT-	R916,927
	4050447355	RES-CF 1/4W J 47K -AT-	R902,917
	4050456355	RES-CF 1/4W J 56K -AT-	R918
	4050468155	RES-CF 1/4W J 680R -AT-	R933
	4050468255	RES-CF 1/4W J 6.8K -AT-	R908
	4050468355	RES-CF 1/4W J 68K -AT-	R914
	4050468455	RES-CF 1/4W J 680K -AT-	R919
	4050475455	RES-CF 1/4W J 750K -AT-	R915
S	4120104001	DIODE 1N4001 -AT-	D905
S	4120146060	DIODE 1N4606 (SI) -AT-	D907-919
S	4120500685	DIODE ZENER 1/2W 6.8V 500MW RD	ZD902
S	41205009C1	DIODE ZENER HZ9C1 -AT-	ZD901
S	4141099001	POWER SAVING 65X126	
	4171047256	RES-MOF 1W J 4.7K -AT-	R936
	5406100000-000	JUMP WIRE 0.6e	J901-926
	2016094251	STUD M3X9	FOR POWER SAVING PCB
	8504113006	SCREW BID(+) M3X6 MACH W/DISK	FOR POWER SAVING PCB
			END

SPARE	Item Number	Description	COMMENT
S	AM63300744-V	SUB NECK PCB ASS'Y (SUB-2)	
	1009091037	BUMPER	FOR NECK SHIELD
S	4100226880	TRS. 2SC2688 TO-126	Q102
S	4172010056	RES-MOF 2W J 10R -AT-	R121
	4490200130	CONN. 2P WAFER 2.5MM	P101-103
	4490500130	CONN. 5P WAFER 2.5MM	P104
	4570304260	SOCKET CRT	SOCKET TOSHIBA CRT
S	5022051040	VR W/SHAFT 2M OHM	VR101
	5074103104	CAP-MEF 0.01UFK 400V -SF-	C105,111
	5103102293	CAP-CCE 1000PFM 3KV -SF-	C101,102
	51041034C3	CAP-CCF +80%-20% 0.01UF/2KV -S	C103
	51042234C3	CAP-CCF +80%-20% 0.022UF/2KV -	C104
	5113224150	CAP-MC 0.22UFK 50V -SF-	C109
	51901035A3	CAP-MPP 0.01UFJ 2KV -SF-	C112
	7050506330	FOCUS X'FORMER	T101
S	411020945P	TRS. 2SC945P TO-92 -RT-	Q101
	5116104111	CAP-MC 0.1UFK 100V -RT-	C113,114
	5134104452	CAP-SCF 0.1UFZ 50V -RT-	C115
	5164229T50	CAP-BP 2.2UFM 50V RT 105C	C108
	4050220455	RES-CF 1/2W J 200K -AT-	R115
	4050418455	RES-CF 1/4W J 180K -AT-	R122
	4050420155	RES-CF 1/4W J 200R -AT-	R117
	4050420455	RES-CF 1/4W J 200K -AT-	R113
	4050422355	RES-CF 1/4W J 22K -AT-	R114,120
	4050451255	RES-CF 1/4W J 5.1K -AT-	R119
	4050462255	RES-CF 1/4W J 6.2K -AT-	R116
	4050462455	RES-CF 1/4W J 620K -AT-	R118
	4050468455	RES-CF 1/4W J 680K -AT-	R123
	4050491255	RES-CF 1/4W J 9.1K -AT-	R112
	4060210115	RES-CC 1/2W K 100R -AT-	R101-103
	4060210215	RES-CC 1/2W K 1K -AT-	R104
	4060210315	RES-CC 1/2W K 10K -AT-	R105
S	4060210515	RES-CC 1/2W K 1M -AT-	R109,111
	4060222415	RES-CC 1/2W K 220K -AT-	R110
	4060251315	RES-CC 1/2W K 51K -AT-	R106-108
S	4120141480	DIODE 1N4148 (SI) -AT-	D103
S	4130100218	DIODE RGP02-18E-5300 -AT-	D101,102
S	4141091202	P.C.B SUB-NECK	
	4321100006	COIL PEAKING 10UH -AT-	L104
	4321158006	COIL PEAKING 0.15UH -AT-	L101-103
	4705415001	SURGE PROTECTOR 200V 52M -AT-	NE101-103
	5406100000-000	JUMP WIRE 0.6e	J101-104,106
			END

SPARE	Item Number	Description	COMMENT
S	AM63325044-V	MAIN PCB ASS'Y (SUB-2)	
S	AM63300144-V	DEF PCB ASS'Y (SUB-2)	
	2012096320	FINGER (A)	FOR NECK SHIELD
	2013096330	NECK SHIELD	
	5541025095	CABLE TIE 2.5X90	FOR WIRE ASS'Y
	8026113006	SCREW BIND(+) TAPPING TRI ANGL	FOR H.V SYNC BUFFER PCB
	9009096330	NECK SHEET	
	2046294000	HEAT SINK F	FOR IC201
S	4159317001	IC LM317T W/MOUNTING KIT TO-22	IC201
	8504113010	SCREW BIND(+) M3X10 MACH W/DIS	FOR IC201
	2023194660	HEAT SINK	FOR IC202
S	41591675A0	IC TDA1675A 15PIN	IC202
	8504113008	SCREW BIND(+) M3X8 MACH W/DISK	FOR IC202
	2046294000	HEAT SINK F	FOR Q315,317
S	4105845528	TRS. BUK 455-200B TO-220	Q315,317
	8504113008	SCREW BIND(+) M3X8 MACH W/DISK	FOR Q315,317
	C488020155	CONN. 2P & WIRE ASS'Y 550MM	FOR P405
	C488040056	CONN. 4P & WIRE ASS'Y	P301
	C488040073	CONN. 4P & WIRE ASS'Y	FOR P205
	C488040074	CONN. 4P & WIRE ASS'Y	FOR P306
	C488040078	CONN. 4P & WIRE ASS'Y	
	C488040079	CONN. 4P & WIRE ASS'Y	FOR P201(H.V SYNC)
	C488051062	CONN. 5P & WIRE ASS'Y	FOR P302
	C488060040	CONN. 6P & WIRE ASS'Y	FOR P307
	C488110013	CONN. 11P & WIRE ASS'Y	FOR P202
	1005083030	STAND TO-220 -SF-	IC201,301,Q304,315,317
S	4052043355	RES-CF 2W J 43K -AT-	R349
S	4100226880	TRS. ZSC2688 TO-126	Q329
S	410030669A	TRS. 2SD669A TO-126	Q318
S	4103200122	TRS. TIP 122	Q332
S	4103200127	TRS. TIP127 TO-220	Q331
S	4105906200	TRS. MOSFET IRF620 TO-220	Q304
S	4159173580	IC HA17358 8PIN	IC203,204
	4171075856	RES-MOF 1W J 0.75R -AT-	R241
S	4172010156	RES-MOF 2W J 100R -AT-	R247
S	4172010356	RES-MOF 2W J 10K -AT-	R329,331
S	4172012156	RES-MOF 2W J 120R -AT-	R335-337
S	4172024956	RES-MOF 2W J 2.4R -AT-	R242
S	4172047056	RES-MOF 2W J 47R -AT-	R338
S	4177312153	RES-MOF 3W J 120R -SF- SMALL	R373,391
S	4177320353	RES-MOF 3W J 20K -SF- SMALL	R322,323
	4323600003	COIL CHOKE 60UH -SF-	L306
	4323750103	COIL CHOKE 75UH -SF-	L307
	4325101003	COIL CHOKE 100UH -SF-	L304
	4325339003	COIL CHOKE 3.3MH -SF-	L305
	4420412002	RELAY 12V	RL102
	4490400207	CONN. 4P WAFER ROUND PIN	P305 FOR YOKE
	4490400260	CONN. 4PIN WAFER 2.0MM 173981-	P203,204
	5074103102	CAP-MEF 0.01UFK 250V -SF-	C225
	5074224102	CAP-MEF 0.22UFK 250V -SF-	C354
	5074335102	CAP-MEF 3.3UFK 250V -SF-	C334
	5074475101	CAP-MEF 4.7UFK 100V -SF-	C325
	5084104510	CAP-MPC 0.1UFJ 100V -SF-	C209,210
	5103103452	CAP-CCE 0.01UFZ 50V -RT-	C699
	5104104443	CAP-CCF +80%-20% 0.1UF/500V -S	C340
	5113154150	CAP-MC 0.15UFK 50V -SF-	C211
	5113224550	CAP-MC 0.22UFJ 50V -SF-	C208
	515F471S35	CAP-ECF 470UFM 35V -SF-	C335,336
	515X221S35	CAP-ECX 220UFM 35V -SF-	C220
	515X221S50	CAP-ECX 220UFM 50V SF-	C342
	515X471S16	CAP-ECX 470UFM 16V -SF-	C212
	5156100S03	CAP-EC6 10UFM 250V -SF-	C338
	5156102S35	CAP-EC6 1000UFM 35V -SF-	C216
	5156222S16	CAP-EC6 2200UFM 16V -SF-	C213
	5190184543	CAP-MPP 0.18UFJ 400V -SF-	C314
	5190364543	CAP-MPP 0.36UFJ 400V -SF-	C316
	5190914543	CAP-MPP 0.91UFJ 400V -SF-	C315
	5195274543	CAP-PMHA 0.27UFJ 400V -SF-	C313
	5221110400	POT(CERMET) 0.3W 100K 6e STAND	VR304
	5221125450	POT(CERMET) 0.5W 250K 8e STAND	VR305
	5225110310	POT(CERMET) 0.3W 10K 6e LAY-DO	VR303,306
	5228150310	POT(CARBON) 0.1W 50K 6e LAY-DO	VR201
	5322113000	WIRE UL1007 #22 BRN 290-K-K	FOR VS-VS'
	5322133000	WIRE UL1007 #22 ORG 290-K-K	6.3V-D207
	5322181500	WIRE UL1007 #22 GRY 140-K-K	FOR N-N'
	5322214014	WIRE UL1015 #22 BRN 390-TERM	FOR HCS1
	5322224024	WIRE UL1032 #22 RED 390-TERM	FOR VCP

	5322234514	WIRE UL1015 #22 ORG 440-TERM 1	FOR 300V
	5322243814	WIRE UL1015 #22 YEL 370-TERM	FOR HCS2
	5324140500	WIRE UL1007 #24 YEL 40-K-K	FOR L-LCH3
	5324151500	WIRE 1007 #24 GRN 140-K-K	FOR R-R'
	5324161600	WIRE UL1007 #24 BLU 150-K-K	FOR FB'-P
	5324171500	WIRE UL1007 #24 VIO 140-K-K	FOR FB-Q
	5324190700	WIRE 1007 #24 WHT 65-K-K	
S	7050314660	F.B.T	T302
	7050904660	O/P TRANSFORMER	T303
	708S226330	COIL HOR LINEARITY	L303
S	410001376A	TRS. 2SA1376A	Q330
S	4110007330	TRS. 2SA733 TO-92M -RT-	Q305,327,333
S	411010647A	TRS. 2SB647A(C) -RT-	Q204,207,309,319
S	411020945P	TRS. 2SC945P TO-92 -RT-	Q206,306
S	4110226550	TRS. 2SC2655 TO-92M -RT-	Q301
S	411030667A	TRS. 2SD667A TO-92M -RT-	Q203,205
S	4116610010	TRS. RN1001 -RT-	Q324-326,337
S	4116612030	TRS. RN1203 -RT-	Q312,316,321,322,323,328,336
	5101471132	CAP-CCB 470PFK 1KV -RT-	C324
	5101681132	CAP-CCB 680PFK 1KV -RT-	C310,311
	5116103111	CAP-MC 0.01UFK 100V -RT-	C218,301,358,359,3A4
	5116104111	CAP-MC 0.1UFK 100V -RT-	C206,302,318,320,323
	5116222111	CAP-MC 0.0022UFK 100V -RT-	C3A2
	5116563150	CAP-MC 0.056UFK 50V -RT-	C207
	5134104452	CAP-SCF 0.1UFZ 50V -RT-	C215,222,329,341
	515X100S02	CAP-ECX 100UFM 160V -SF-	C337
	515X101T25	CAP-ECX 100UFM 25V -RT-	C303,330
	515X101T50	CAP-ECX 100UFM 50V -RT-	C321
	515X109T50	CAP-ECX 1UFM 50V -RT-	C326,327,328
	515X229T50	CAP-ECX 2.2UFM 50V -RT-	C360
	5156101T10	CAP-EC6 100UFM 10V -RT-	C221
	5156101T16	CAP-EC6 100UFM 16V -RT-	C331
	5156109T50	CAP-EC6 1UFM 50V -RT-	C214,304,355
	5156221T16	CAP-EC6 220UFM 16V -RT-	C332
	5156229T50	CAP-EC6 2.2UFM 50V -RT-	C217,339
	5156339T50	CAP-EC6 3.3UFM 50V -RT-	C224,226
	5156470T35	CAP-EC6 47UFM 35V -RT-	C219
	3052000300	EYELET	FOR DEF PCB & DAUGHTER PCB
	4050212155	RES-CF 1/2W J 120R -AT-	R321
	4050218155	RES-CF 1/2W J 180R -AT-	R240
	4050282155	RES-CF 1/2W J 820R -AT-	R355-357,397
	4050410155	RES-CF 1/4W J 100R -AT-	R211,212
	4050410255	RES-CF 1/4W J 1K -AT-	R222,244,249,251,253,306,307,308,374
	4050410355	RES-CF 1/4W J 10K -AT-	R226,310,3A3,3A4
S	4050410555	RES-CF 1/4W J 1M -AT-	R394,382
	4050413355	RES-CF 1/4W J 13K -AT-	R252,366
	4050415355	RES-CF 1/4W J 15K -AT-	R266,365
	4050415455	RES-CF 1/4W J 150K -AT-	R392
	4050418155	RES-CF 1/4W J 180R -AT-	R238
	4050418255	RES-CF 1/4W J 1.8K -AT-	R245,3A2
	4050418355	RES-CF 1/4W J 18K -AT-	R246,278
	4050418455	RES-CF 1/4W J 180K -AT-	R395
	4050420255	RES-CF 1/4W J 2K -AT-	R248,313,350
	4050420355	RES-CF 1/4W J 20K -AT-	R363
	4050422055	RES-CF 1/4W J 22R -AT-	R311
	4050422255	RES-CF 1/4W J 2.2K -AT-	R237,371
	4050422455	RES-CF 1/4W J 220K -AT-	R370
S	4050422555	RES-CF 1/4W J 2.2M -AT-	R367,382
	4050424355	RES-CF 1/4W J 24K -AT-	R364,381
	4050427355	RES-CF 1/4W J 27K -AT-	R358
	4050430255	RES-CF 1/4W J 3K -AT-	R250,361
	4050433155	RES-CF 1/4W J 330R -AT-	R228
	4050433355	RES-CF 1/4W J 33K -AT-	R231
	4050433455	RES-CF 1/4W J 330K -AT-	R393
	4050433955	RES-CF 1/4W J 3.3R -AT-	R236
	4050436355	RES-CF 1/4W J 36K -AT-	R359
	4050439255	RES-CF 1/4W J 3.9K -AT-	R3A6
	4050439355	RES-CF 1/4W J 39K -AT-	R277
	4050443255	RES-CF 1/4W J 4.3K -AT-	R239
	4050447155	RES-CF 1/4W J 470R -AT-	R260
	4050447255	RES-CF 1/4W J 4.7K -AT-	R213-218,229,342,343,3A1
	4050451255	RES-CF 1/4W J 5.1K -AT-	R360
	4050451355	RES-CF 1/4W J 51K -AT-	R3A5
	4050456255	RES-CF 1/4W J 5.6K -AT-	R230,301
	4050456455	RES-CF 1/4W J 560K -AT-	R332,334
	4050468155	RES-CF 1/4W J 680R -AT-	R309
	4050468255	RES-CF 1/4W J 6.8K -AT-	R369
	4050468355	RES-CF 1/4W J 68K -AT-	R232
	4050482255	RES-CF 1/4W J 8.2K -AT-	R243
	4050491355	RES-CF 1/4W J 91K -AT-	R368

S	4070410555	RES-MF 1/4W J 1M -AT-	R300
	4077833955	RES-MF 1/2W J 3.3R SMALL -AT-	R3A8
S	4120104002	DIODE 1N4002 -AT-	D212
S	4120141480	DIODE 1N4148 (SI) -AT-	D205-208,213,215,310,327,330-332,335,340,342-344
S	4120500152	DIODE ZENER 14.5-15.1V -AT-	D321,322,325,326
S	41205004A2	DIODE ZENER HZ4A2 -AT-	D211,214,312
S	4120500561	DIODE ZENER RD5.1EB2 1/2W -AT-	D220
S	41205009C1	DIODE ZENER HZ9C1 -AT-	D301
S	4120552798	DIODE ZENER 1N5279BRL	D333
S	4130100100	DIODE RGP10D-5302 -AT- 1A	D311
S	413010010J	DIODE RGP10J-5390 1A 600V -AT-	D308,309,315,334,341
S	413010010M	DIODE RGP10M-5311 -AT-	D316
S	4130100218	DIODE RGP02-18E-5300 -AT-	D317,318
S	413020120C	DIODE EGP20C-5390 -AT-	D313,314
S	4141095500	P.C.B. I2C	
S	4141101005	P.C.B. MAIN 300X300	
S	4141101101	P.C.B. H.S. 182X49	
S	4141101102	P.C.B. TRS. 182X49	
S	4141102101	P.C.B. H-OUT 180X40M/M	
	4171030156	RES-MOF 1W J 300R -AT-	R324
	4171033056	RES-MOF 1W J 33R -AT-	R320
	4171033256	RES-MOF 1W J 3.3K -AT-	R327
	4171033956	RES-MOF 1W J 3.3R -AT-	R3A9
	4256041001	RES-PR MF 1/4W F 1K -AT-	R221
	4256041002	RES-PR MF 1/4W F 10K -AT-	R225,326,346
	4256041003	RES-PR MF 1/4W F 100K -AT-	R219,224
	4256041302	RES-PR MF 1/4W F 13K -AT-	R315,347
	4256041602	RES-PR MF 1/4W F 16K -AT-	R325
	4256041652	RES-PR MF 1/4W F 16.5K -AT-	R353
	4256042002	RES-PR MF 1/4W F 20K -AT-	R351
	4256042201	RES-PR MF 1/4W F 2.2K -AT-	R312
	4256042801	RES-PR MF 1/4W F 2.8K -AT-	R259
	4256043903	RES-PR MF 1/4W F 390K -AT-	R234
	4256044301	RES-PR MF 1/4W F 4.3K -AT-	R348
	4256045622	RES-PR MF 1/4W F 56.2K -AT-	R223
	4256046802	RES-PR MF 1/4W F 68K -AT-	R235
	4256047501	RES-PR MF 1/4W F 7.5K -AT-	R352
	4256047502	RES-PR MF 1/4W F 75K -AT-	R220
	4256049530	RES-PR MF 1/4W F 953R -AT-	R258
	5406100000-000	JUMP WIRE 0.6¢	J201-209,211-215,217,218,220-222,224-231,233-258
			J260-268,270,272-281,283-290,292-294,297,0328
	5406100000-000	JUMP WIRE 0.6¢	J201-209,211-215,217,218,220-222,224-231,233-258,
			J260-268,270,272-281,283-290,292-294,297,302,0328
			FOR TRS. PCB
	1026094000	MOVABLE BUSHING	
	2007891030	HEAT SINK	
S	4130303410	DIODE 3TH41 (CAP)	D303
	3052000300	EYELET	
S	4130052A20	DIODE RG2A2 1300V/0.5A	D336,337
S	4172010356	RES-MOF 2W J 10K -AT-	R328
S	4172020956	RES-MOF 2W J 2R -AT-	R316,386
S	4172022956	RES-MOF 2W J 2.2R -AT-	R319,390
S	4172024156	RES-MOF 2W J 240R -AT-	R314
S	4172047856	RES-MOF 2W J 0.47R -AT-	R317
	4323529003	COIL CHOKE 5.2UH -SF-	L302
	4490400207	CONN. 4P WAFER ROUND PIN	P209
	4490600034	CONN. 6P 5273-06 OR 3060-06	P307
	5093273595	CAP-PP 922 P 2KV 0.027UF +- 5%	C308
	5113224150	CAP-MC 0.22UFK 50V -SF-	C305
	51905625A3	CAP-MPP 0.0056UFJ 2KV -SF-	C309
	5193273573	CAP-PMH 0.027UFJ 1.6KV -SF-	C308
	5193562573	CAP-PMH 5600PFJ 1.6V -SF-	C309
	5195822573	CAP-PMHA 8200PFJ 1.6KV -SF-	C307
	5290025000	TUBE-SHRINK ID=25¢	FOR C307
	7050206330	DRIVER TRANSFORMER	T301
	5116103111	CAP-MC 0.01UFK 100V -RT-	C306,317
	4050412155	RES-CF 1/4W J 120R -AT-	R3B1
	4050447055	RES-CF 1/4W J 47R -AT-	R318
S	4120500152	DIODE ZENER 14.5-15.1V -AT-	D319,320
S	413010010J	DIODE RGP10J-5390 1A 600V -AT-	D307
S	413020120A	DIODE EGP-20A -AT-	D302
	5406100000-000	JUMP WIRE 0.6¢	J301,303

END

SPARE	Item Number	Description	COMMENT
S	AM63300844-V	H.V SYNC BUFFER DAUGHTER PCB A	
	C488030198	CONN. 3P & WIRE ASS'Y	FOR P406
S	4152740050	IC 74LS05 14PIN	IC401
	4490400260	CONN. 4PIN WAFER 2.0MM 173981-	P407
	5128101552	CAP-CCSL 100PFJ 50V -RT-	C493
	5128391552	CAP-CCSL 390PFJ 50V -RT-	C494
	5156470T16	CAP-EC6 47UFM 16V -RT-	C495
	4050410155	RES-CF 1/4W J 100R -AT-	R496
	4050410255	RES-CF 1/4W J 1K -AT-	R494,495
	4050420255	RES-CF 1/4W J 2K -AT-	R492,493
S	4141104000	P.C.B. BUFFER (40x45)	FOR SYNC
			END

SPARE	Item Number	Description	COMMENT
S	AM63300344-V	SPS PCB ASS'Y (SUB-2)	
	2001291780	HEAT SINK	Q11
	3011100030	NUT ISO HEX M3 Z1NC	FOR Q11
S	4101509470	TRS. MOSFET 2SK947 TO-220	Q11
	8504113012	SCREW BIND(+) M3X12 MACH W/DIS	FOR Q11
	2046294000	HEAT SINK F	FOR Q7
S	4101164050	TRS. 2N6405 TO-220 16A/800V SC	FOR Q7
	8504113008	SCREW BIND(+) M3X8 MACH W/DISK	FOR Q7
	2004191630	HEAT SINK HOLDER	FOR Q1
	2008094660	HEAT SINK	FOR Q1
S	4101515730	TRS. MOSFET 2SK1573 TO-3P	Q1
	5510135280	TUBE SI-RUBBER 13.5x28MM	FOR Q1
	8283113015	SCREW BIND(+) M3X15 MACH W/SPR	FOR Q1
	2007094660	HEAT SINK	FOR D30
S	41303031F4	DIODE 3A/400V 35NS 31DF4 -AT-	D30
	2001291780	HEAT SINK	D21
	3011100030	NUT ISO HEX M3 Z1NC	FOR D21
S	410584551A	TRS. MOSFET BUK455-100A TO-22	Q15
S	4130505400	DIODE D5LC40 ITO-220	D21
	8504113012	SCREW BIND(+) M3X12 MACH W/DIS	FOR D21
	2007891030	HEAT SINK	FOR IC6
	3011100030	NUT ISO HEX M3 Z1NC	FOR IC6
S	4159317001	IC LM317T W/MOUNTING KIT TO-22	IC6
	8504113008	SCREW BIND(+) M3X8 MACH W/DISK	FOR IC6
	2013094660	HEAT SINK	FOR DB1
S	4130508860	DIODE D5SB60 5A/600V	DB1
	8504113008	SCREW BIND(+) M3X8 MACH W/DISK	FOR DB1
	C459426010	GND WIRE ASS'Y #18 GRN 180MM	GND WIRE
	C488080023	CONN. 8P & WIRE ASS'Y	FOR SK902
	1005083030	STAND TO-220 -SF-	FOR Q7
S	4072033855	RES-MF 2W J 0.33R -AT-	R6
S	4095022158	RES-WW 5W J 220R SQY	R5
S	4095027358	RES-WW 5W J 27K SQY	R43
S	4095030254	RES-WW 5W J 3K SQM-NORMAL	R44
S	4097010354	RES-WW 7W J 10K SQM-NORMAL	R7
S	4097015051	RES-WW 7W J 15R SQM-SF	R2
S	410030669A	TRS. 2SD669A TO-126	Q2
S	41303031F2	DIODE 3A/200V 31DF2	D22,23
S	41303031F4	DIODE 3A/400V 35NS 31DF4 -AT-	D20
S	4130304311	DIODE 31DF1 -AT-	D24
S	4159384200	IC UC3842A 8PIN	IC1
	4159435002	POTO COUPLER X'STER 4N35 W=10	PH1
S	4159523800	IC M5238AP	IC4
	4320361003	COIL CHOKE 360UH -SF-	L1
	4420512004	RELAY DC12V	RELAY
	4490200207	CONN. 2P WAFER ROUND PIN 10MM	SK3
	4490300190	CONN. 3.96 3P W/O PIN 2 -SF-	SK1
S	4692300001	CLIP-FUSE 5MM	FOR F1
	5061103440	CAP-CCS 0.01UFM 400V -SF-	C5,6
	5061103440	CAP-CCS 0.01UFM 400V -SF-	C5,6
	5061103440	CAP-CCS 0.01UFM 400V -SF-	C5,6
	5065105425	CAP-MPR 1UFM 250V -SF-	C1
	5065474425	CAP-MPR 0.47UFM 250V -SF-	C2
	5074104101	CAP-MEF 0.1UFK 100V -SF-	C11
	5074104104	CAP-MEF 0.1UFK 400V -SF-	C22,43
	5074224101	CAP-MEF 0.22UFK 100V -SF-	C48,49
	5101471193	CAP-CCB 470PFK 3KV -SF-	C9
	515A331S50	CAP-EC +-20% 330UF/50V -SF-	C32
	515A470S02	CAP-EC +-20% 47UF/160V -SF-	C30
	515A471S35	CAP-EC +-20% 470UF/35V -SF-	C8
	515F101S01	CAP-ECF 100UFM 100V -SF-	C91
	515F331S01	CAP-ECF 330UFM 100V -SF-	C31
	515F471S25	CAP-ECF 470UFM 25V -SF-	C33,34
	515L331S04	CAP-ECL 330UFM 400V -SF-	C7
	515X221S07	CAP-ECX 220UFM 200V -SF-	C47
	515X331S50	CAP-ECX 330UFM 50V -SF-	C32
	515X471S35	CAP-ECX 470UFM 35V -SF-	C8
	5225150210	POT(CERMET) 0.3W 5K 6x LAY-DOW	VR1
S	5268400052	FUSE 4A/250VAC	F1
	7021134091	PTCR PTH451C2628F140M270	PTCR1
	7050106330	POWER TRANSFORMER	T2
	7066330253	CHOKE COMMON MODE	T1
S	410112907A	TRS. 2N2907A	Q18
S	4110105610	TRS. 2SB561 TO-92 -RT-	Q3,6
S	411022120Y	TRS. 2SC2120Y TO-92 -RT-	Q5,20
S	4114422220	TRS. PH2222 TO-92 -RT-	Q17
S	4114501006	TRS. MCR100-6 TO-92 -RT-	Q4

S	411451006B	TRS. LSCR100-6B TO-92 -RT-	Q4
S	4114510080	TRS. SCR MCR100-8 TO-92 -RT-	Q19
S	415943100A	IC TL431 REGULATOR TO-92 -RT-	IC3
	5074472505	CAP-MEF 0.0047UFJ 50V -SF-	C13
	5101102132	CAP-CCB 1000PFK 1KV -RT-	C38
	5101102152	CAP-CCB 1000PFK 50V -RT-	C17
	5101121152	CAP-CCB 120PFK 50V -RT-	C10,14
	5101331152	CAP-CCB 330PFK 50V -RT-	C50
	5101681152	CAP-CCB 680PFK 50V -RT-	C46,51
	5116472111	CAP-MC 0.0047UFK 100V -RT-	C15
	5134104452	CAP-SCF 0.1UFZ 50V -RT-	C37
	515A100T01	CAP-EC +-20% 10UF/100V -RT-	C20
	515A100T25	CAP-EC +-20% 10UF/25V -RT-	C45
	515A101T10	CAP-EC +-20% 100UF/10V -RT-	C16
	515A220T25	CAP-EC +-20% 22UF/25V -RT-	C21
	515A339T50	CAP-EC +-20% 3.3UF/50V -RT-	C3
	515A470T10	CAP-EC +-20% 47UF/10V -RT-	C12
	515X100T01	CAP-ECX 10UFM 100V -RT-	C20
	515X100T25	CAP-ECX 10UFM 25V -RT-	C45
	515X100T50	CAP-ECX 10UFM 50V -RT-	C19
	515X101T10	CAP-ECX 100UFM 10V -RT-	C16
	515X220T25	CAP-ECX 22UFM 25V -RT-	C21
	515X339T50	CAP-ECX 3.3UFM 50V -RT-	C3
	515X339T50	CAP-ECX 3.3UFM 50V -RT-	C53
	515X470T10	CAP-ECX 47UFM 10V -RT-	C12
	5156479T50	CAP-EC6 4.7UFM 50V -RT-	C18
	4050151055	RES-CF 1/2W J 51R -AT- SMALL	R47
	4050247455	RES-CF 1/2W J 470K -AT-	R1
	4050410155	RES-CF 1/4W J 100R -AT-	R21,25,35,37,38
	4050410255	RES-CF 1/4W J 1K -AT-	R20,48,57,66,70,78
	4050410355	RES-CF 1/4W J 10K -AT-	R27,58,85
	4050410455	RES-CF 1/4W J 100K -AT-	R36
S	4050410555	RES-CF 1/4W J 1M -AT-	R65,97
	4050411355	RES-CF 1/4W J 11K -AT-	R31
	4050412155	RES-CF 1/4W J 120R -AT-	R24
	4050415355	RES-CF 1/4W J 15K -AT-	R26,29,46
	4050418055	RES-CF 1/4W J 18R -AT-	R9
	4050420155	RES-CF 1/4W J 200R -AT-	R23,79
	4050420255	RES-CF 1/4W J 2K -AT-	R10,33
	4050420355	RES-CF 1/4W J 20K -AT-	R15
	4050422255	RES-CF 1/4W J 2.2K -AT-	R68
	4050424055	RES-CF 1/4W J 24R -AT-	R8
	4050424355	RES-CF 1/4W J 24K -AT-	R45,76
	4050427255	RES-CF 1/4W J 2.7K -AT-	R13
	4050430255	RES-CF 1/4W J 3K -AT-	R30,34,69,71,96
	4050430355	RES-CF 1/4W J 30K -AT-	R62
	4050433455	RES-CF 1/4W J 330K -AT-	R84
	4050436355	RES-CF 1/4W J 36K -AT-	R95
	4050439355	RES-CF 1/4W J 39K -AT-	R92
	4050447155	RES-CF 1/4W J 470R -AT-	R77
	4050447255	RES-CF 1/4W J 4.7K -AT-	R63,67
	4050447355	RES-CF 1/4W J 47K -AT-	R75
	4050451055	RES-CF 1/4W J 51R -AT-	R11
	4050451255	RES-CF 1/4W J 5.1K -AT-	R18,19,32
	4050456455	RES-CF 1/4W J 560K -AT-	R39,40
	4050462155	RES-CF 1/4W J 620R -AT-	R49
	4050462955	RES-CF 1/4W J 6.2R -AT-	R12
	4050475155	RES-CF 1/4W J 750R -AT-	R41
	4050482255	RES-CF 1/4W J 8.2K -AT-	R28
	4050482455	RES-CF 1/4W J 820K -AT-	R82
	4050491355	RES-CF 1/4W J 91K -AT-	R17
	4051047455	RES-CF 1W J 470K -AT-	R4
	4071022855	RES-MF 1W J 0.22R -AT-	R3,56
S	4120104001	DIODE 1N4001 -AT-	D4,29
S	4120146060	DIODE 1N4606 (S1) -AT-	D5-9,11-13,16,17,19,26,31
S	4120500162	DIODE ZENER 16V HZ-16-2 -AT-	Z1,5
S	4120500563	DIODE ZENER RD5.6EB1 -AT-	Z6
S	4120501802	DIODE ZENER HZ18-2 V -AT-	Z2,3
S	412055279B	DIODE ZENER 1N5279BRL	Z4
S	413010001B	DIODE FE1B-5390 1A 100V -AT-	D15
S	413010001D	DIODE FE1D-5390	D2,3,34
S	4130101102	DIODE 11DF2 -AT-	D2,3,34
S	413010426C	DIODE BYV26C KINK FORMING -AT-	D25
S	413010426D	DIODE 1A/800V BYV26D	D1,28
S	413020110D	DIODE EGP10D -AT-	D2,3,34
S	4160447555	RES-MG 1/4W J 4.7M -AT-	R14
	4171010056	RES-MOF 1W J 10R -AT-	R81
	4171013953	RES-MOF 1W J 1.3R -SF-	R87
	4256041002	RES-PR MF 1/4W F 10K -AT-	R16
	4256041101	RES-PR MF 1/4W F 1.1K -AT-	R94

4256041913 RES-PR MF 1/4W F 191K -AT-
4256043301 RES-PR MF 1/4W F 3.3K -AT-
4256044322 RES-PR MF 1/4W F 43.2K -AT-
4256049091 RES-PR MF 1/4W F 9.09K -AT-
4321150006 COIL PEAKING 15UH -AT-
4322209046 FERRITE BEAD 2UH -AT-
5406100000-000 JUMP WIRE 0.6e

R72
R74
R73
R86
L3
L2
J1-25,27-36,38,40

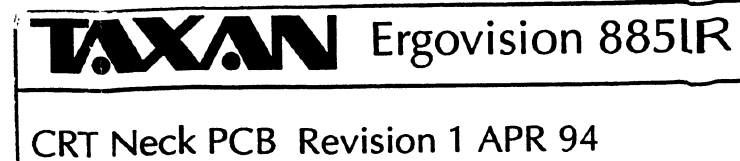
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SPARE	Item Number	Description	COMMENT
S	SS63320130-404	LOGIC PCB ASS'Y	
	4010110152	RES-CHIP 1/10W J 100R 0805	R822
	4010110252	RES-CHIP 1/10W J 1K 0805	R852
	4010120252	RES-CHIP 1/10W J 2K 0805	R840
	4010120352	RES-CHIP 1/10W J 20K 0805	R801-808
	4010122952	RES-CHIP 1/10W J 2.2R 0805	R853,854
	4010124252	RES-CHIP 1/10W J 2.4K 0805	R824
	4010139252	RES-CHIP 1/10W J 3.9K 0805	R820,831
	4010147252	RES-CHIP 1/10W J 4.7K 0805	R809-816
	4010156252	RES-CHIP 1/10W J 5.6K 0805	R830
	4050216055	RES-CF 1/2W J 16R -AT-	R855
	4050400055	RES-CF 1/4W J OR -AT-	L801,R821
S	411010647C	TRS. 2S8647C TO-92M -RT-	Q854
S	411030667C	TRS. 2SD667C TO-92M -RT-	Q853
S	412014148T	DIODE 1N4148 (BAS32L) MLF SMD	D810-814
S	4141101502	P.C.B. DMC1000	
S	415574574T	IC 74HC574 SMD CHIP 20PIN	IC810
S	4159100001	IC DMC 1000 PLCC REV:G	IC801
S	4159241600	IC 24C16 (SOIC) 8PIN	IC802
S	4159241640	IC X24164 (SOIC) 8PIN	IC803
S	4159358000	IC LM358 8PIN	IC811
	4159633012	FIRMUARE 6330GR12 REV12	
	419A110022	RES-CHIP 1/10W F 10K 0805 -AT-	R843,850,851
	419A120022	RES-CHIP 1/10W F 20K 0805 -AT-	R842
	419A124912	RES-CHIP 1/10W F 2.49K 0805 -A	R845
	419A140222	RES-CHIP 1/10W F 40.2K 0805 -A	R841
	419A149912	RES-CHIP 1/10W F 4.99K 0805 -A	R844
	4321109006	COIL PEAKING 1UH -AT-	L803
	4490200130	CONN. 2P WAFER 2.5MM	P812
	4490400130	CONN. 4P WAFER (BXB-XH-A) P221	P813
	4491400220	CONN. 14P 52044-1410	CNP801
	5121101552	CAP-CCCH 100PFJ 50V -RT-	C819
	5156101110	CAP-EC6 100UFM 10V -RT-	C816
	5156470T16	CAP-EC6 47UFM 16V -RT-	C815
	5176229L16	CAP-TC 2.2UFK 16V CHIP 3528	C801
	7145102456	CAP-X7R 0.001UFZ 50V CHIP 1206	C809
	7145473156	CAP-X7R 0.047UFK 50V CHIP 1206	C804
	7147104456	CAP-CC +80%-20% 0.1UF/50V CHIP	C803,805-807,850,851
	7154000000	CRYSTAL 4.00MHZ	RC801
	7185101116	CAP-CC +-10% 100PF/100 CHIP	C808,814
			END

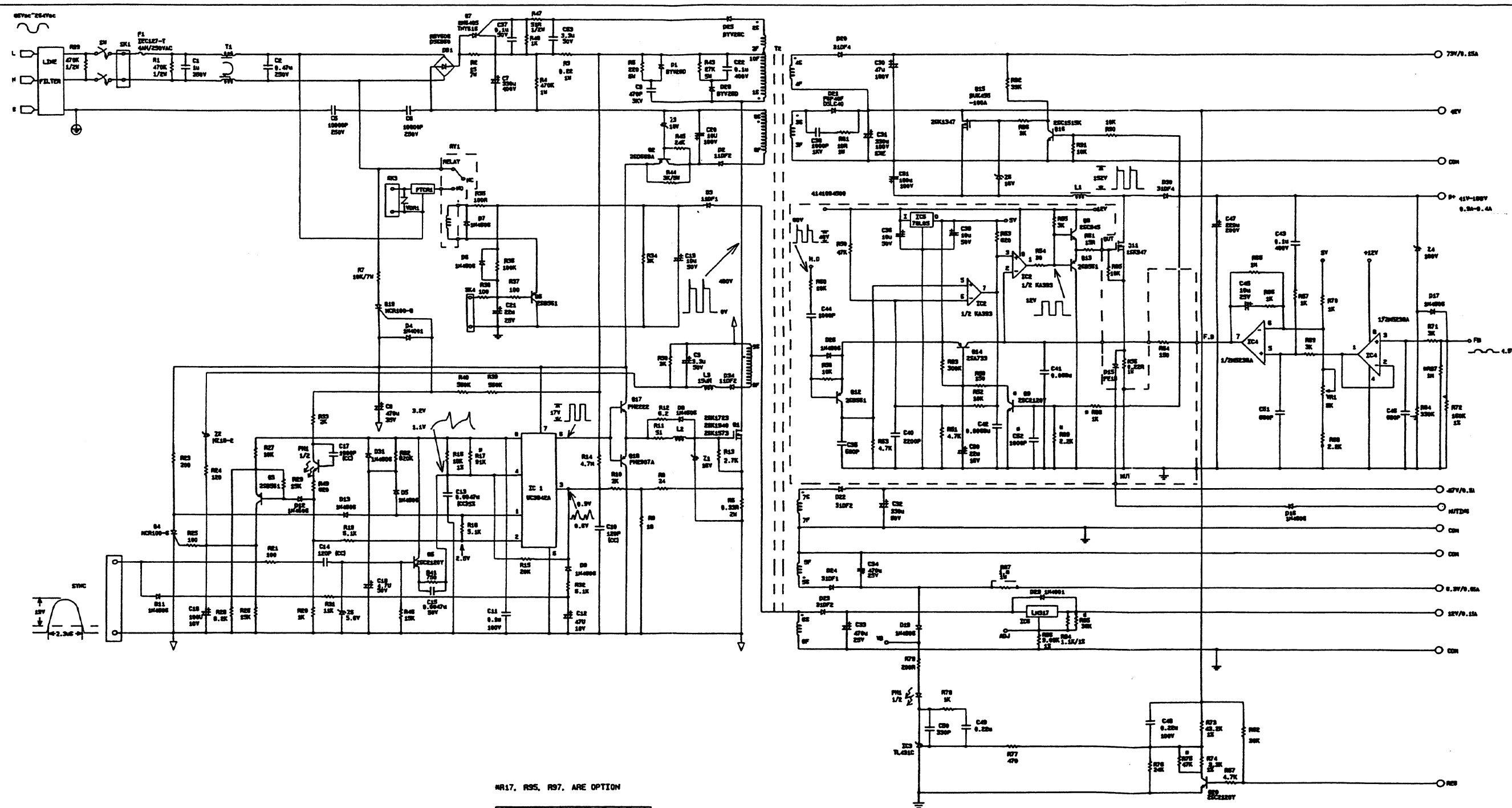
SPARE	Item Number	Description	COMMENT
S	AM67000944-V	H-PRO DAUGHTER PCB ASS'Y (SUB-	
	4490500203	CONN. 5P R/A WAFER HB02051	
S	411020945P	TRS. 2SC945P TO-92 -RT-	Q335
	5156101T16	CAP-EC6 100UFM 16V -RT-	C352
	4050410255	RES-CF 1/4W J 1K -AT-	R379
	4050415155	RES-CF 1/4W J 150R -AT-	R388
	4050447255	RES-CF 1/4W J 4.7K -AT-	R387
S	4120141480	DIODE 1N4148 (SI) -AT-	D338,339,347
S	41205009C1	DIODE ZENER HZ9C1 -AT-	D346
S	4141103100	P.C.B DELAY 26X27	
-----			END -----

SPARE	Item Number	Description	COMMENT
S	AM63300442-V	DAUGHTER-1 PCB ASS'Y (SUB-1)	
S	411021515K	TRS. 2SC1515K TO-92 -RT-	Q16
S	4159393000	IC LM393 14PIN	IC2
	4491500203	CONN. 15P HB02151 R/A	SK5
S	4110007330	TRS. 2SA733 TO-92M -RT-	Q14
S	4110105610	TRS. 2SB561 TO-92 -RT-	Q12,13
S	411020945P	TRS. KSC945CG TO-92 -RT-	Q8
S	411022120Y	TRS. 2SC2120Y TO-92 -RT-	Q9
S	415978L05A	IC MC78L05ACZ 3PIN	IC5
	5101102152	CAP-CCB 1000PFK 50V -RT-	C52
	5101681152	CAP-CCB 680PFK 50V -RT-	C35
	5116102111	CAP-MC 0.001UFK 100V -RT-	C44
	5116222111	CAP-MC 0.0022UFK 100V -RT-	C40
	5116682111	CAP-MC 6800PFK 100V -RT-	C42
	5116683150	CAP-MC 0.068UFK 50V -RT-	C41
	515X100T50	CAP-ECX 10UFM 50V -RT-	C36,39
	5156220T25	CAP-EC6 22UFM 25V -RT-	C90
	4050410255	RES-CF 1/4W J 1K -AT-	R88
	4050410355	RES-CF 1/4W J 10K -AT-	R52,60,90,91
	4050415055	RES-CF 1/4W J 15R -AT-	R61
	4050415155	RES-CF 1/4W J 150R -AT-	R59,64
	4050422255	RES-CF 1/4W J 2.2K -AT-	R89
	4050430055	RES-CF 1/4W J 30R -AT-	R54
	4050430255	RES-CF 1/4W J 3K -AT-	R55
	4050430455	RES-CF 1/4W J 300K -AT-	R93
	4050447255	RES-CF 1/4W J 4.7K -AT-	R51
	4050447355	RES-CF 1/4W J 47K -AT-	R50
	4050462155	RES-CF 1/4W J 620R -AT-	R53
S	4141094501	P.C.B. DC-DC CONVERTER	
	5406100000-000	JUMP WIRE 0.6e	J90,91,93
			END

Timing diagram showing R/C/B and S/C signals. R/C/B has levels 0.7 and 0. S/C has levels 0.7, 0, and -0.3.



DATE	REV	BY
10-1-83	1	W
10-1-83	2	W
10-1-83	3	W
10-1-83	4	W
10-1-83	5	W
10-1-83	6	W
10-1-83	7	W
10-1-83	8	W
10-1-83	9	W
10-1-83	10	W
10-1-83	11	W
10-1-83	12	W
10-1-83	13	W
10-1-83	14	W
10-1-83	15	W
10-1-83	16	W
10-1-83	17	W
10-1-83	18	W
10-1-83	19	W
10-1-83	20	W
10-1-83	21	W
10-1-83	22	W
10-1-83	23	W
10-1-83	24	W
10-1-83	25	W
10-1-83	26	W
10-1-83	27	W
10-1-83	28	W
10-1-83	29	W
10-1-83	30	W
10-1-83	31	W
10-1-83	32	W
10-1-83	33	W
10-1-83	34	W
10-1-83	35	W
10-1-83	36	W
10-1-83	37	W
10-1-83	38	W
10-1-83	39	W
10-1-83	40	W
10-1-83	41	W
10-1-83	42	W
10-1-83	43	W
10-1-83	44	W
10-1-83	45	W
10-1-83	46	W
10-1-83	47	W
10-1-83	48	W
10-1-83	49	W
10-1-83	50	W
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10-1-83	52	W
10-1-83	53	W
10-1-83	54	W
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10-1-83	57	W
10-1-83	58	W
10-1-83	59	W
10-1-83	60	W
10-1-83	61	W
10-1-83	62	W
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10-1-83	70	W
10-1-83	71	W
10-1-83	72	W
10-1-83	73	W
10-1-83	74	W
10-1-83	75	W
10-1-83	76	W
10-1-83	77	W
10-1-83	78	W
10-1-83	79	W
10-1-83	80	W
10-1-83	81	W
10-1-83	82	W
10-1-83	83	W
10-1-83	84	W
10-1-83	85	W
10-1-83	86	W
10-1-83	87	W
10-1-83	88	W
10-1-83	89	W
10-1-83	90	W
10-1-83	91	W
10-1-83	92	W
10-1-83	93	W
10-1-83	94	W
10-1-83	95	W
10-1-83	96	W
10-1-83	97	W
10-1-83	98	W
10-1-83	99	W
10-1-83	100	W

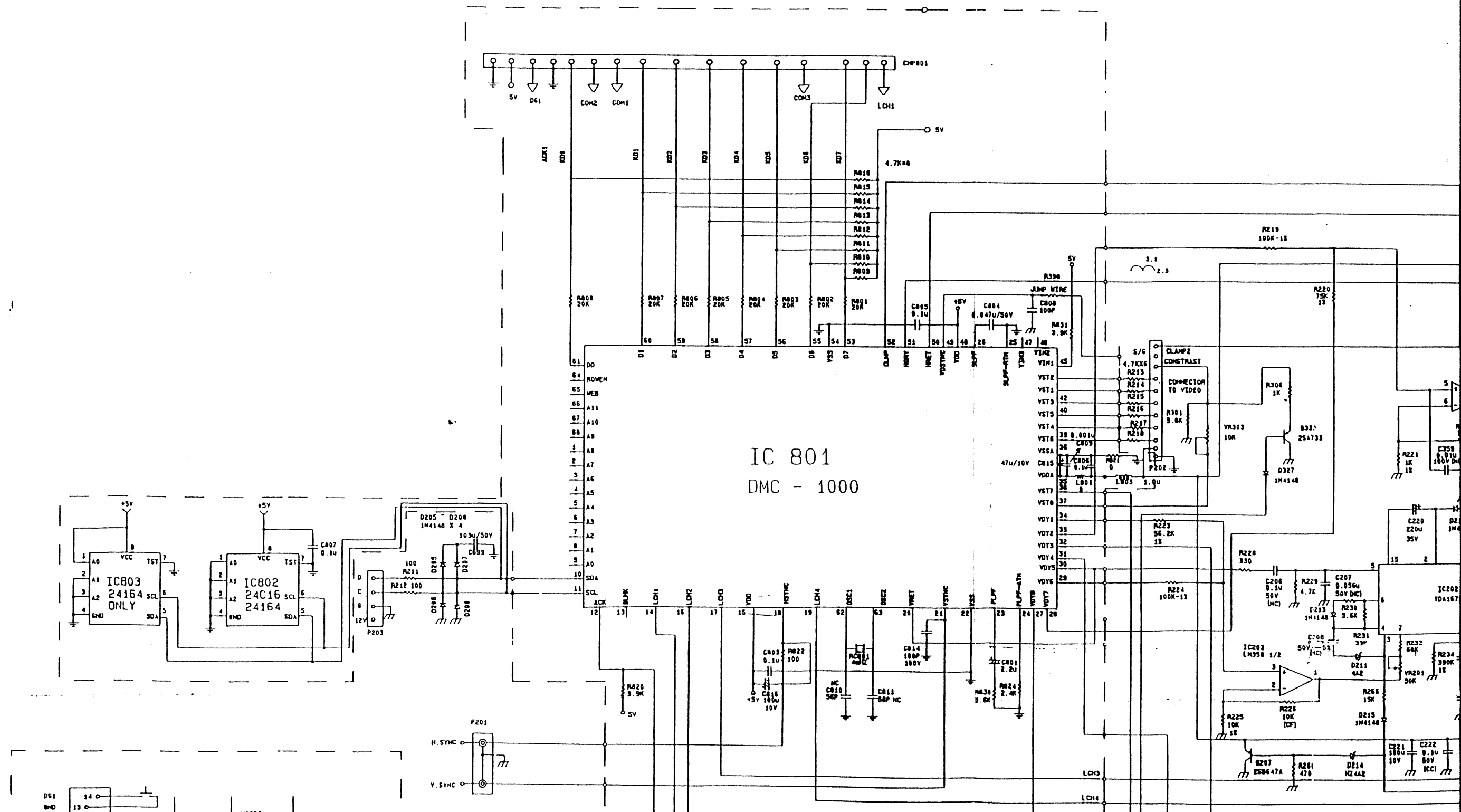


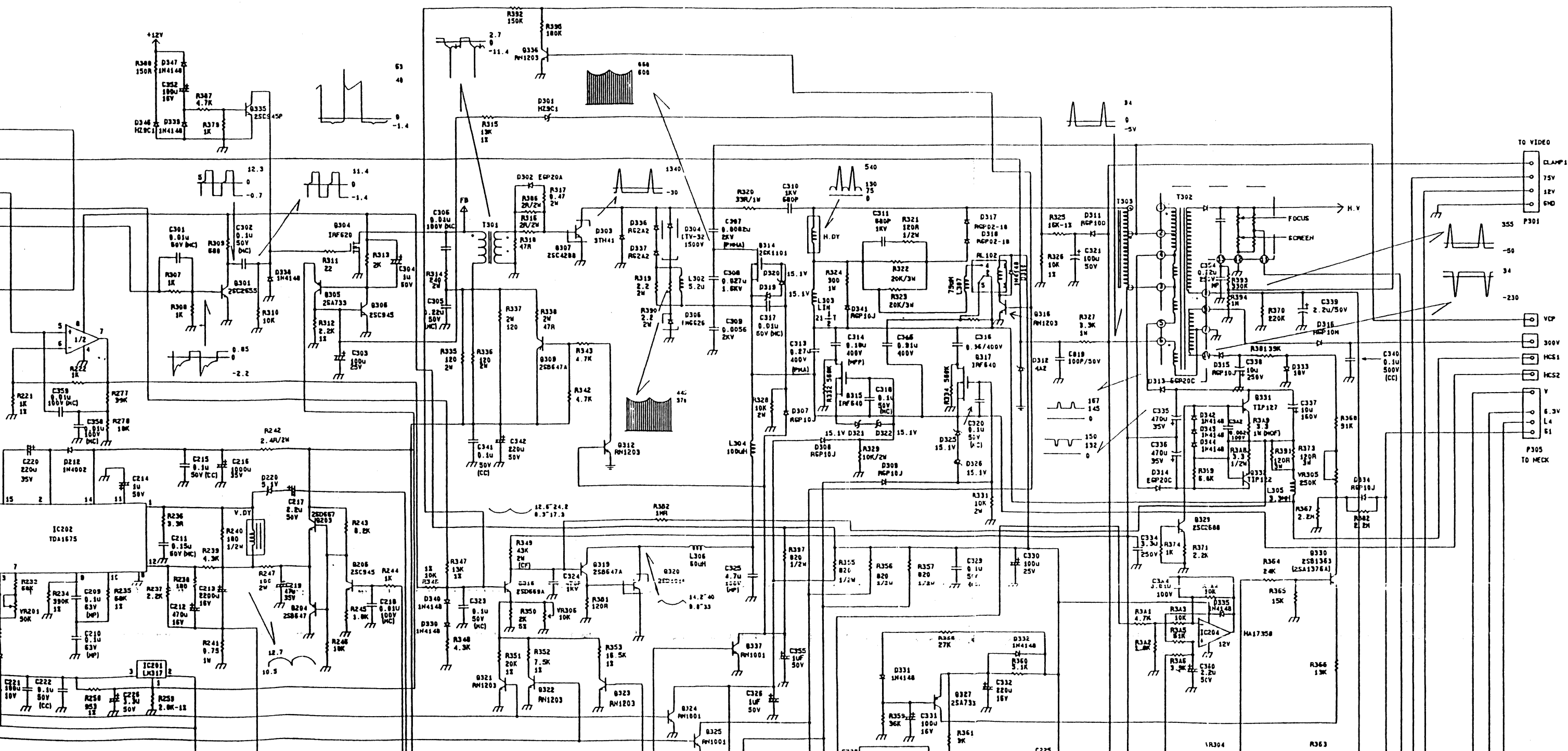
R17, R55, R57 ARE OPTION

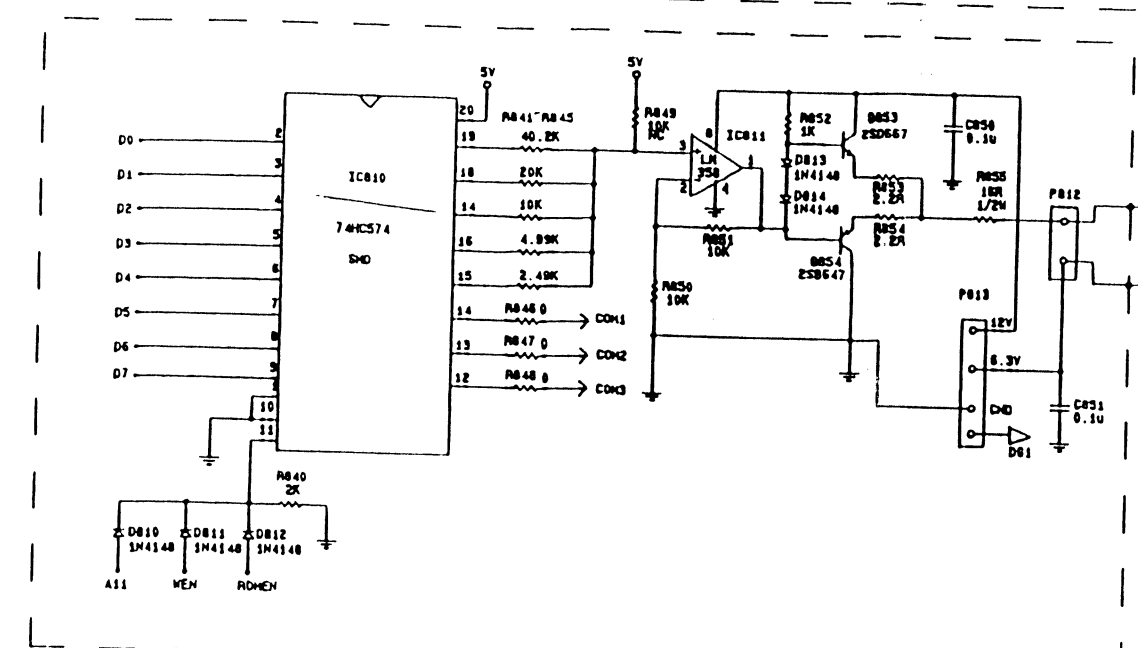
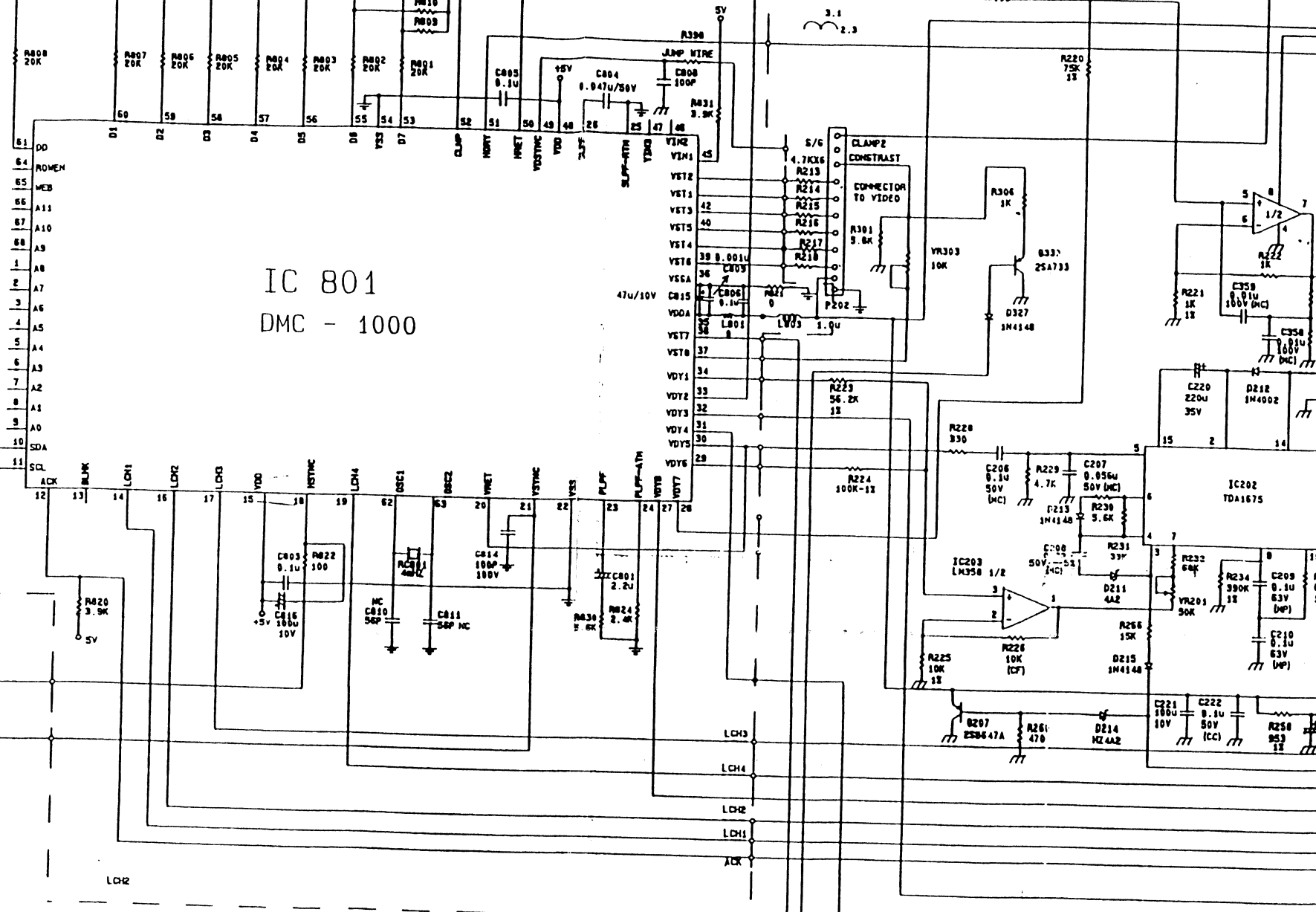
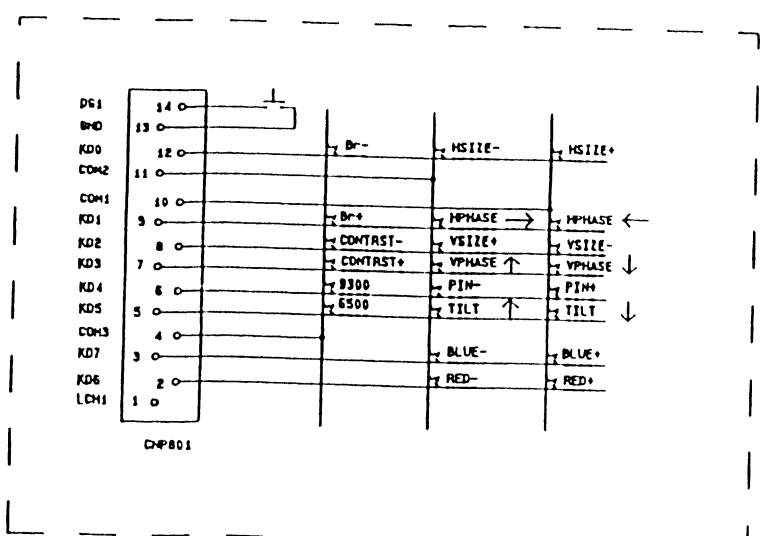
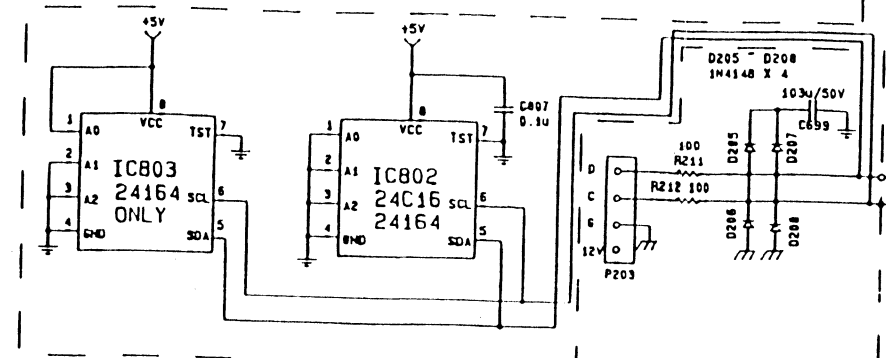
RES	RES	RES
R17	100K	100K
R55	1.0K	1.0K
R57	1.0K	1.0K

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Power Supply PCB Revision 1 APR 94

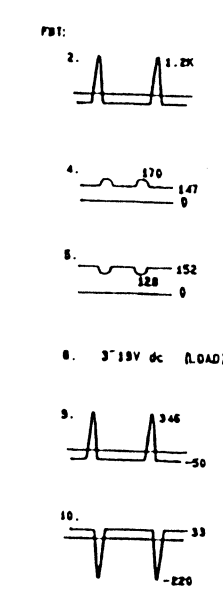
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11-23-'83	N-1116830 IE
11-24-'83	N-1013390 ME
11-24-'83	N-1115090 ME
12-15-'83	N-1126830 AE
12-17-'83	N-1226830 ME
01-08-'84	N-12271830 ME
01-14-'84	N-12271830 ME
02-07-'84	N-1226940 ME
02-17-'84	N-1226940 IE
02-19-'84	O-0201840 SE
02-19-'84	N-1202040 ME
C2-24-'84	N-0216940 ME
02-24-'84	N-0221840 ME
03-02-'84	O-0221840 IE
03-08-'84	O-0226940 IE
03-14-'84	N-02231840 ME
DATE	ECN/EDG NO.
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04-22-'84	O-0400840 ME
04-23-'84	O-0412940 ME

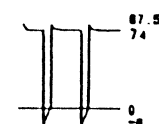
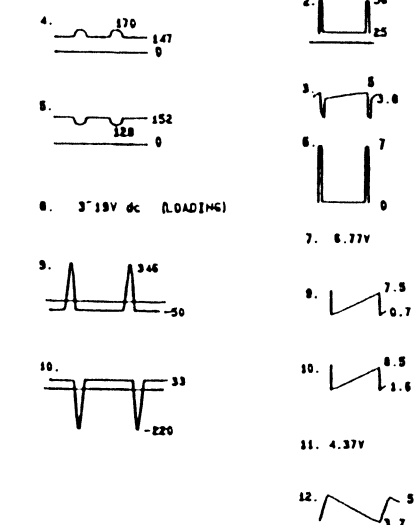
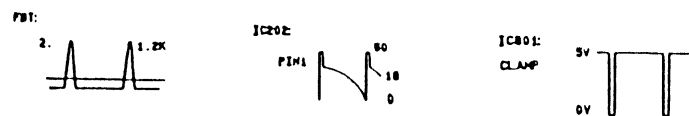
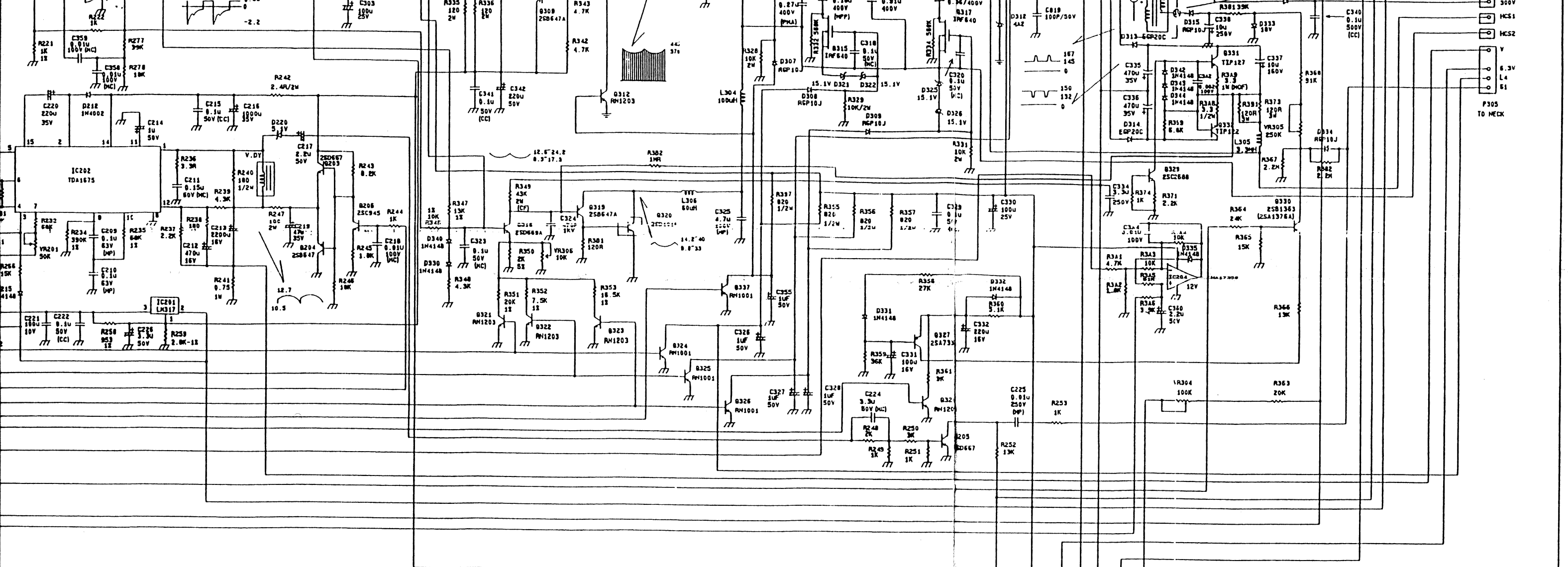






H: 77KHZ
 B+: 147Vdc
 31KHZ: 59V
 35KHZ: 64V
 37KHZ: 71V
 49KHZ: 92V
 56KHZ: 99V



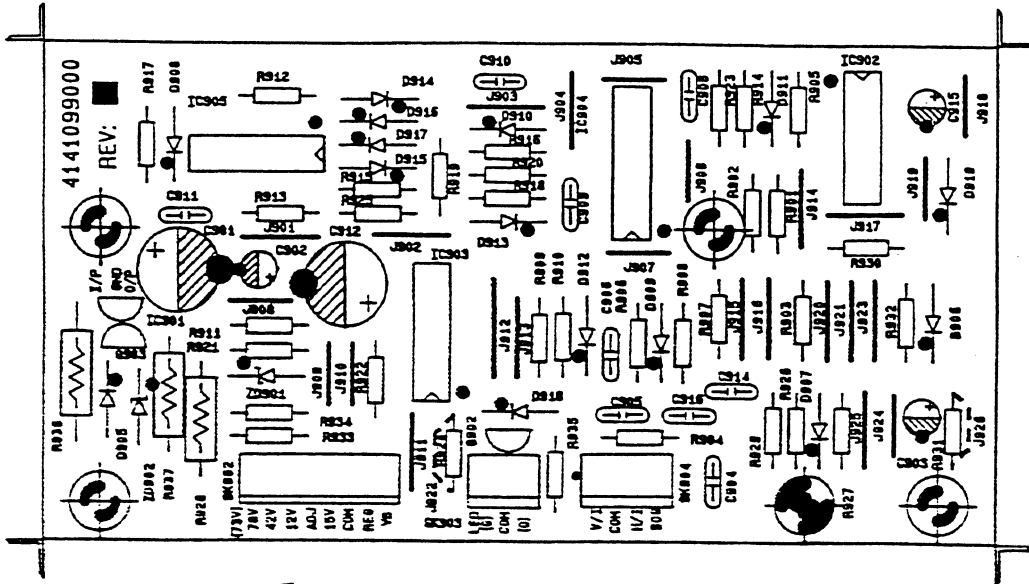


FH	82°66	66°53	51°42	42°36.6	36.6°23
KHZ	KHZ	KHZ	KHZ	KHZ	KHZ
LCH1	H	H	L	L	L
LCH2	H	H	L	H	L
LCH3	H	L	H	L	L
LCH4	H	H	H	L	L

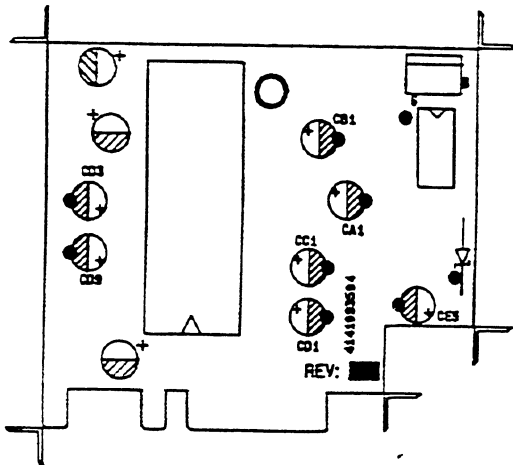
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Deflection PCB
Revision 1 APR 94

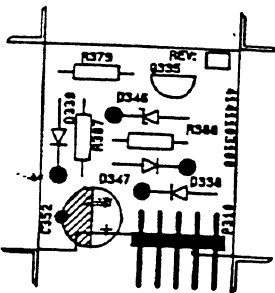
PCB LAYOUT DRAWING



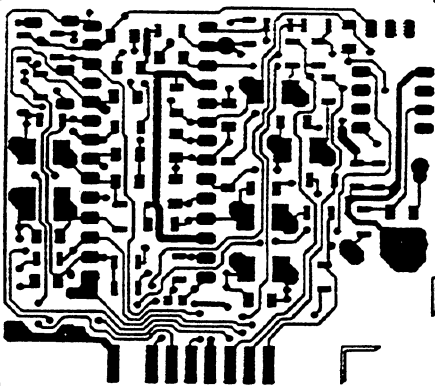
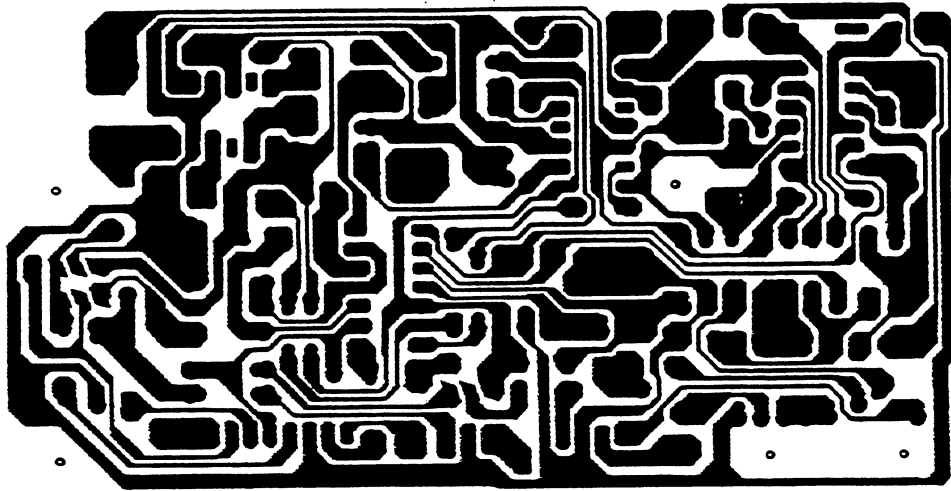
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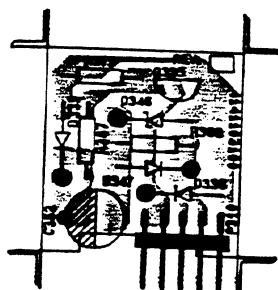
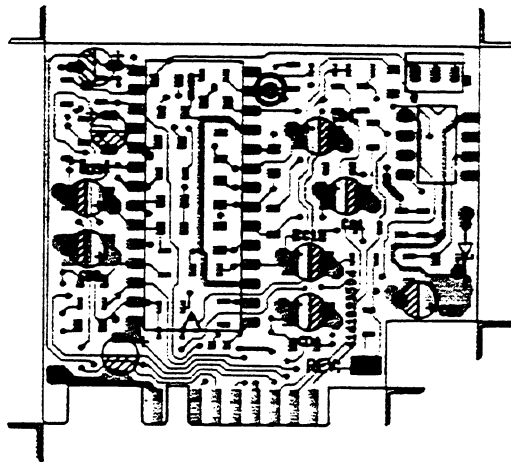
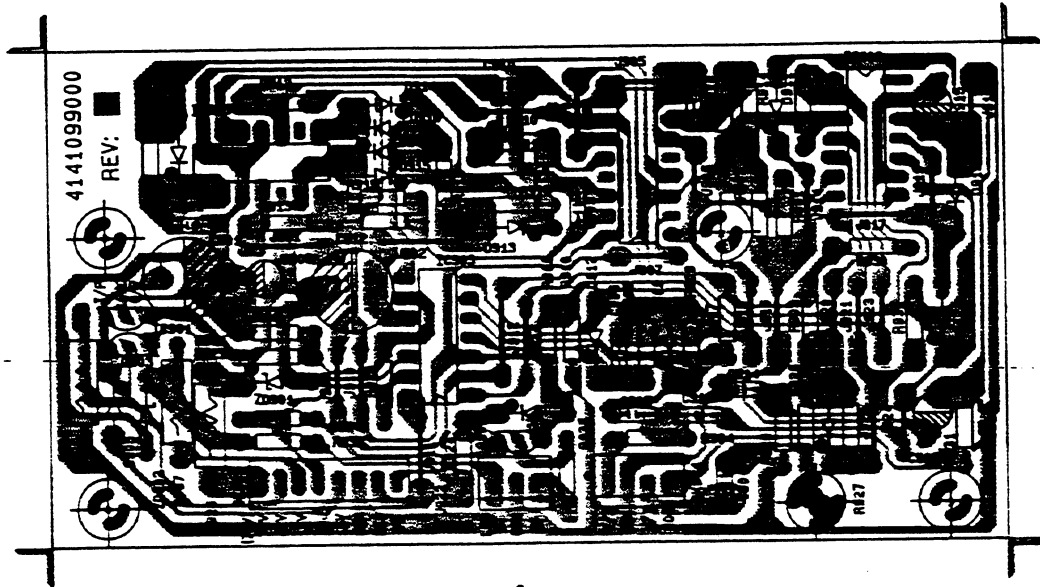


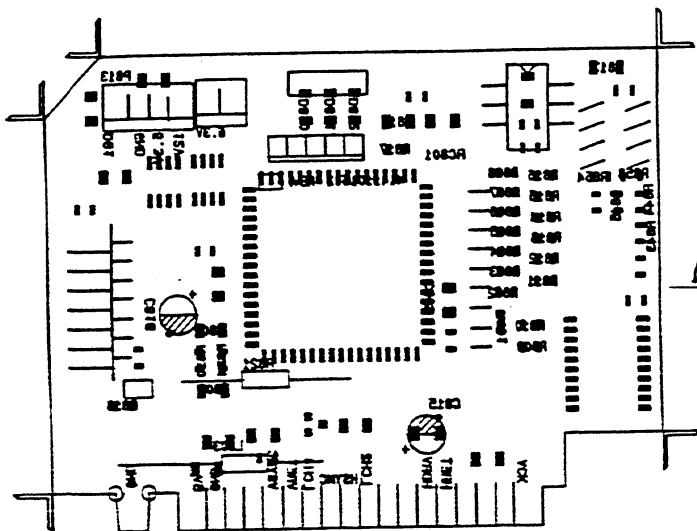
DAUGHTER PCB



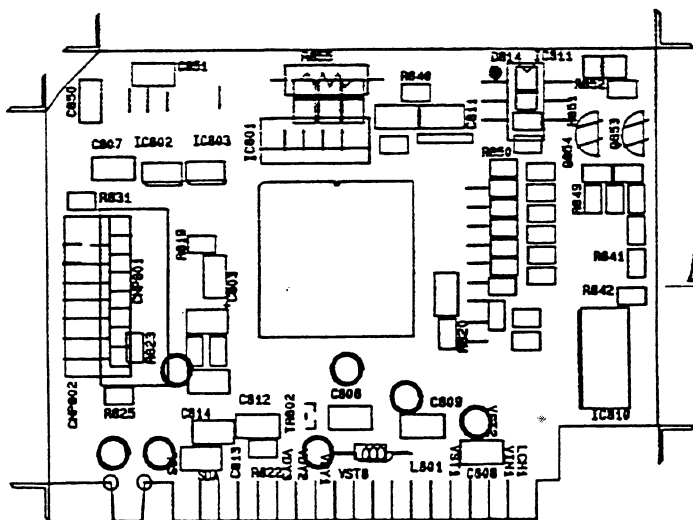
DELAY PCB



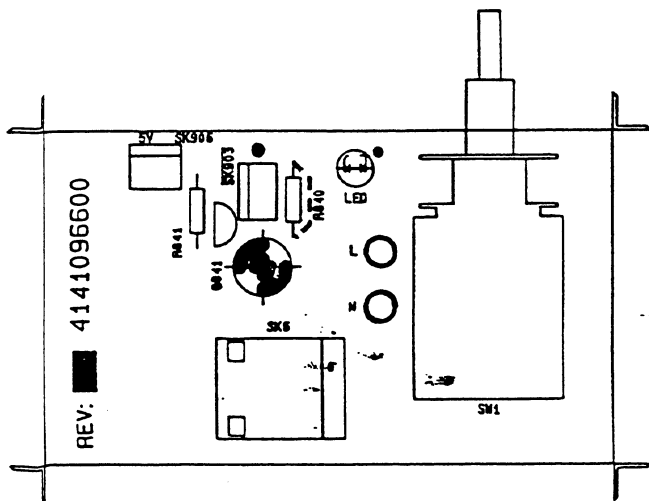




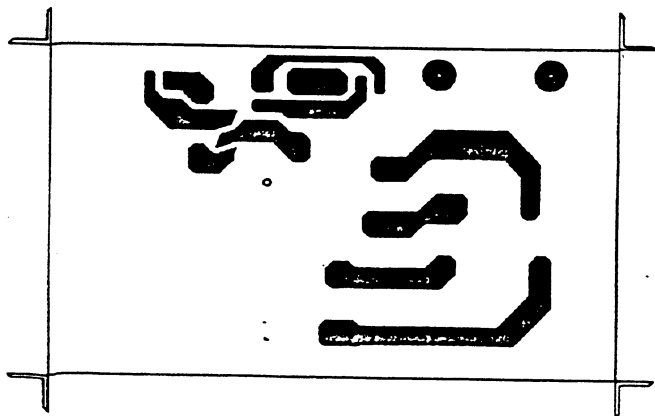
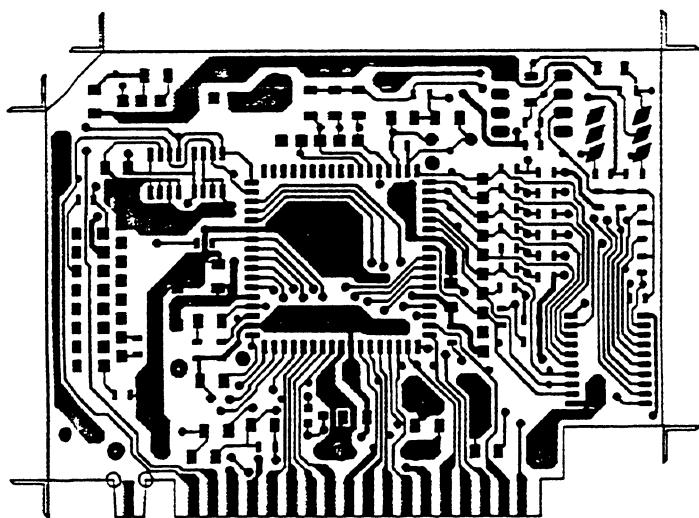
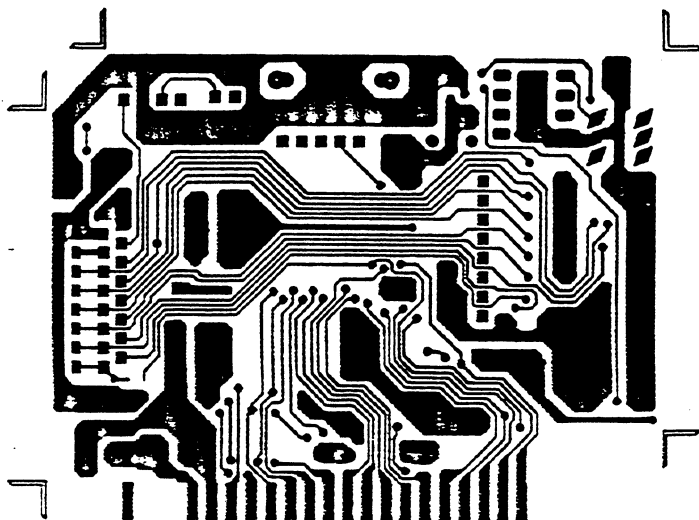
DMC1000 PCB
COMP.

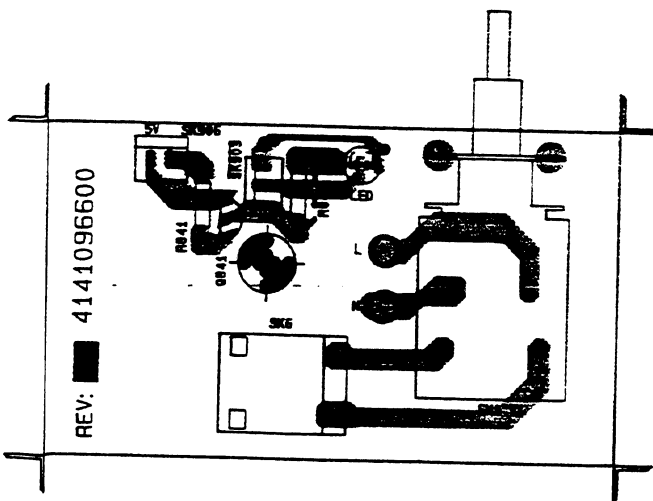
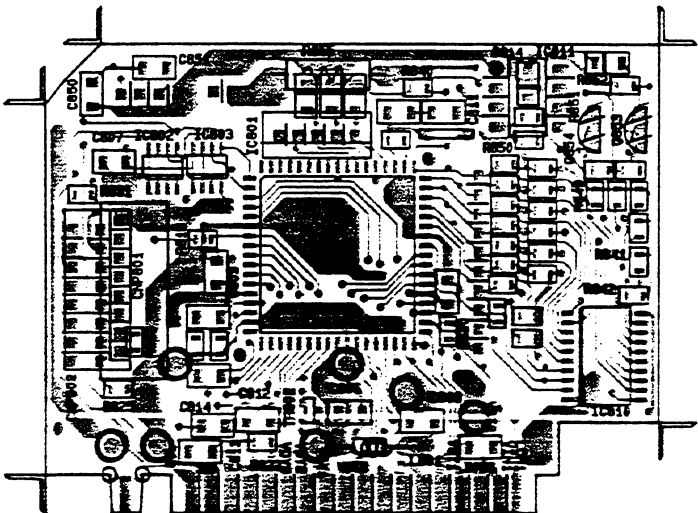
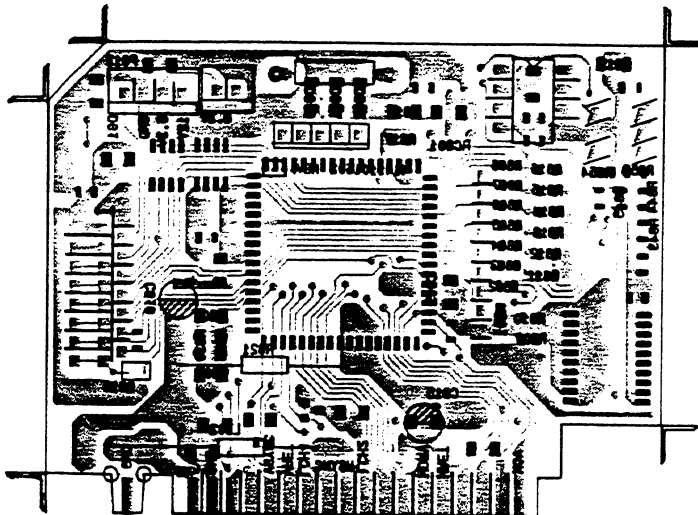


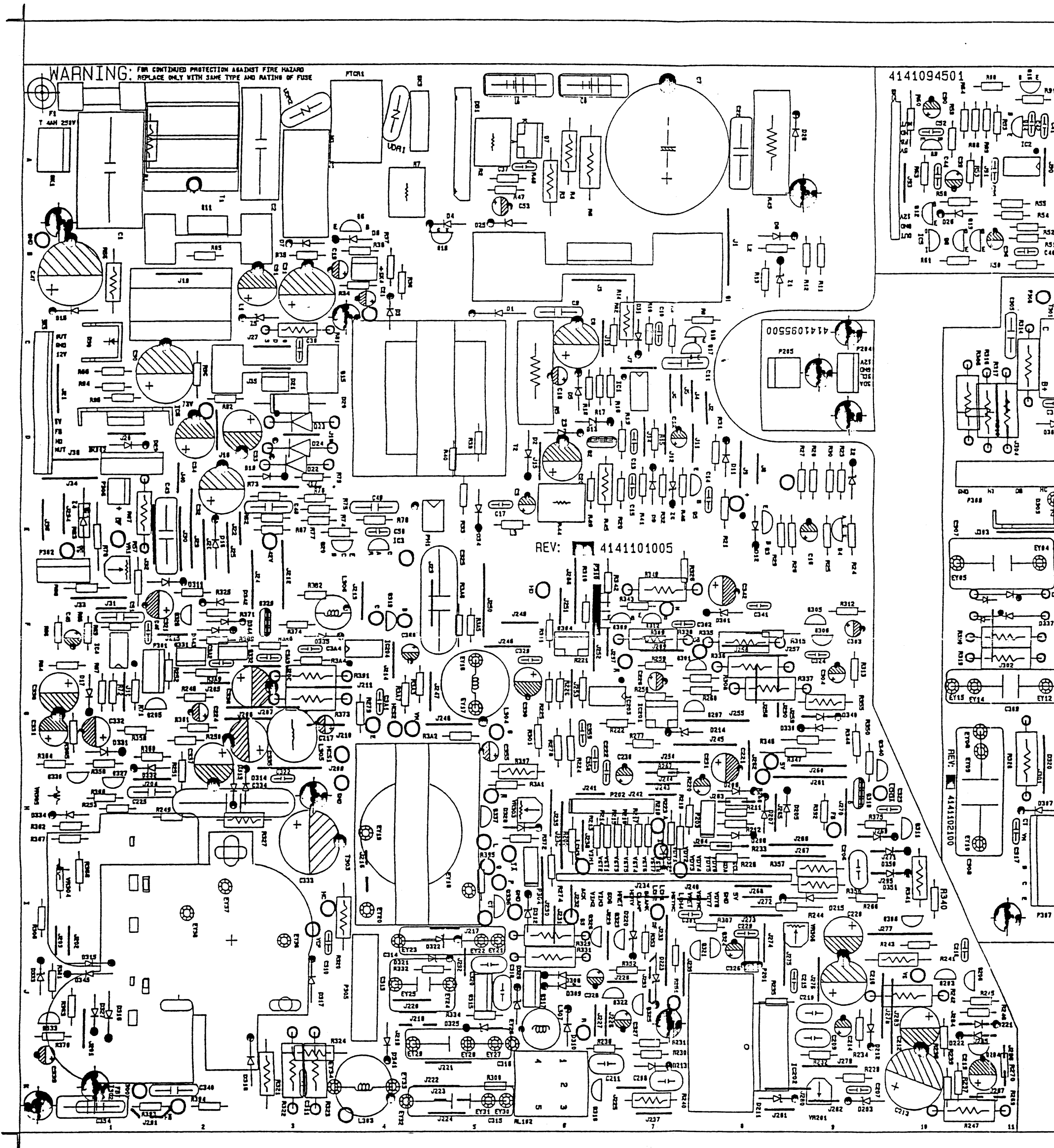
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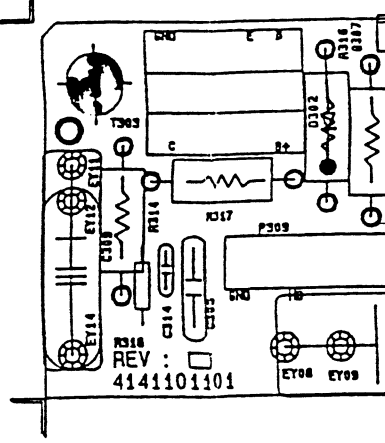
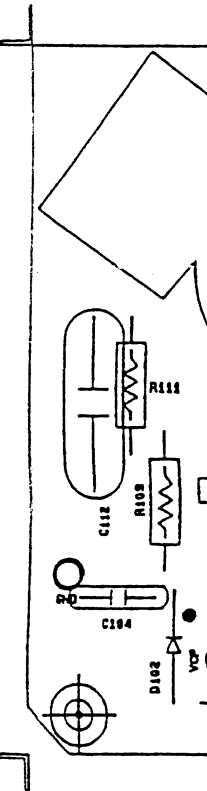
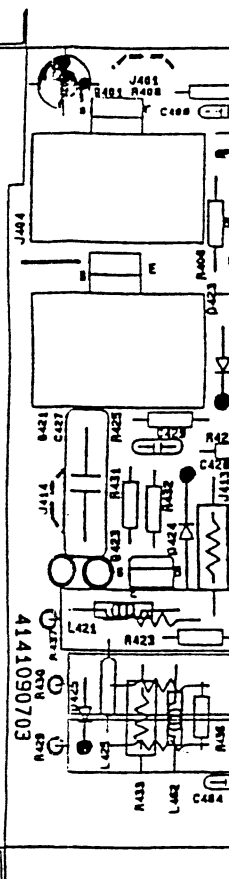
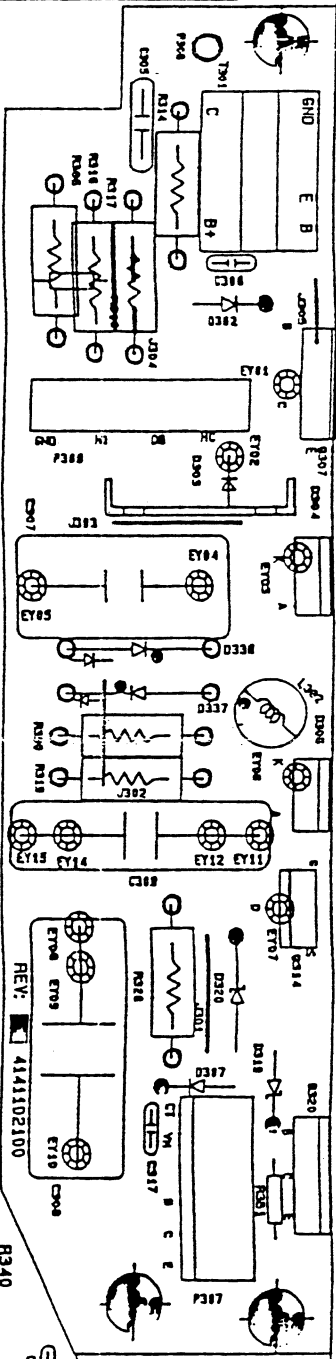
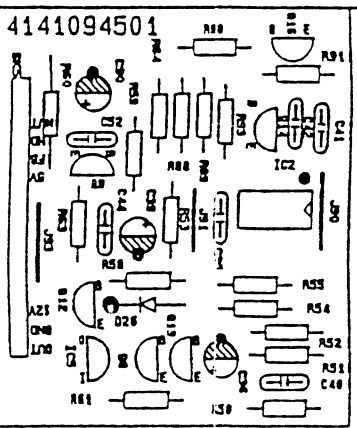
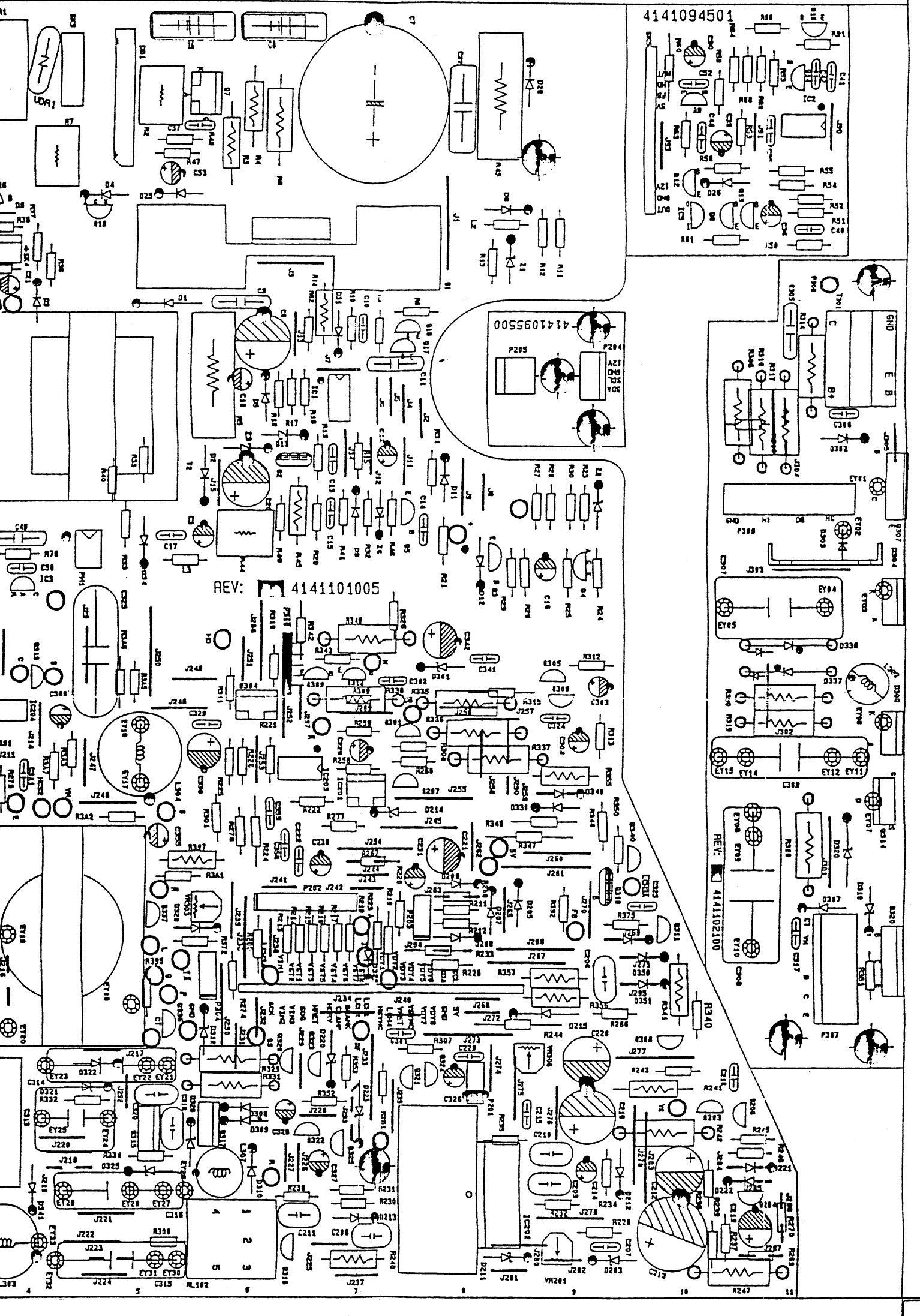
SW PCB





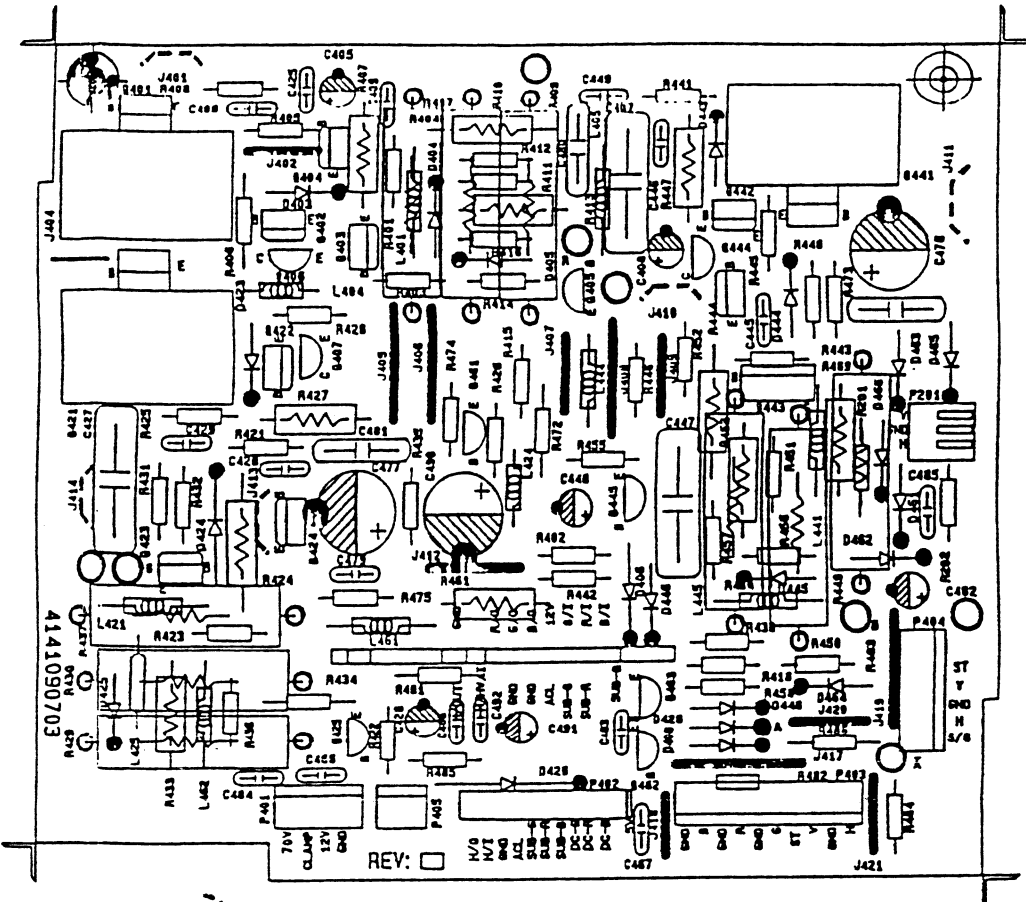
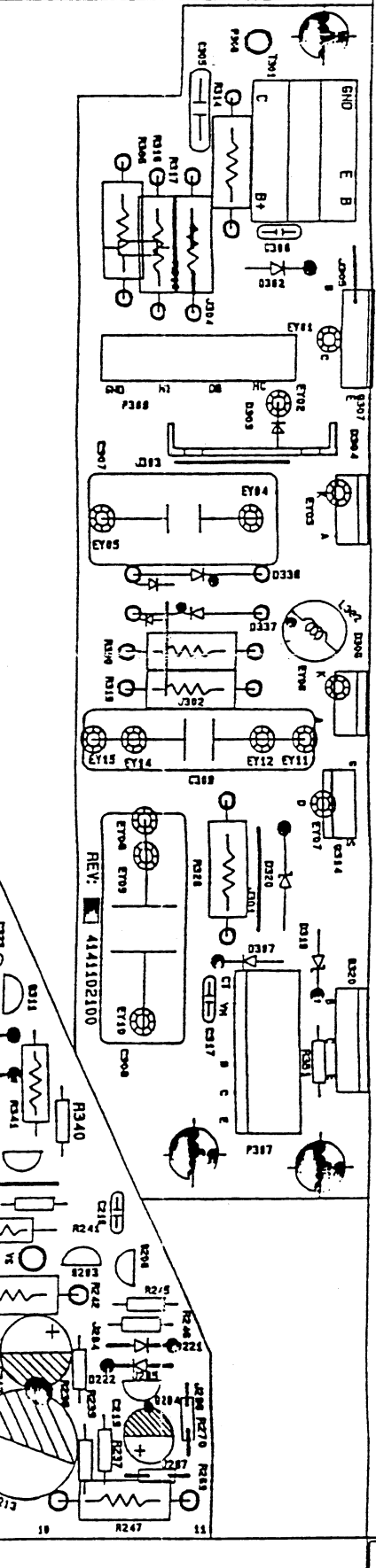
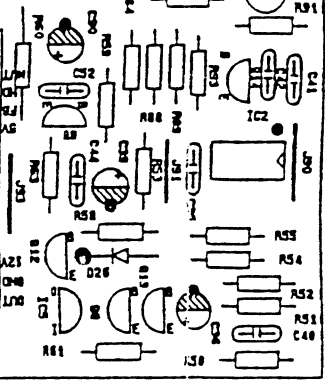


4141101005	MAIN PCB
4141095500	I2C PCB
4141094501	DC-DC CONVERTER PCB
4141102100	UNUSED

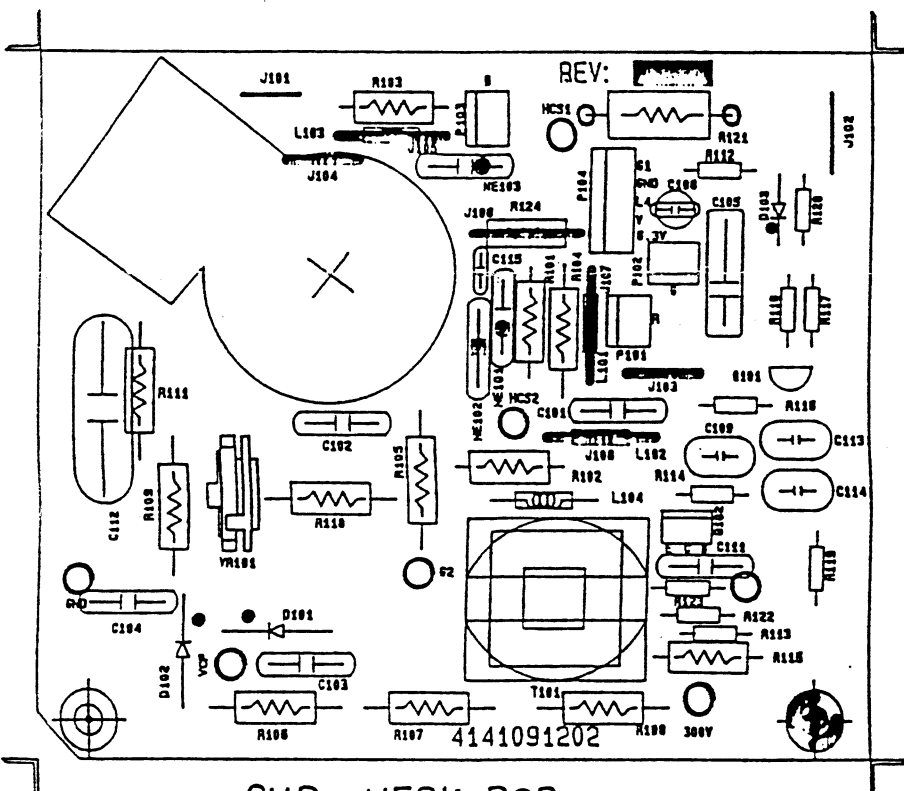


MAIN PCB
I2C PCB
DC-DC CONVERTER PCB
UNUSED

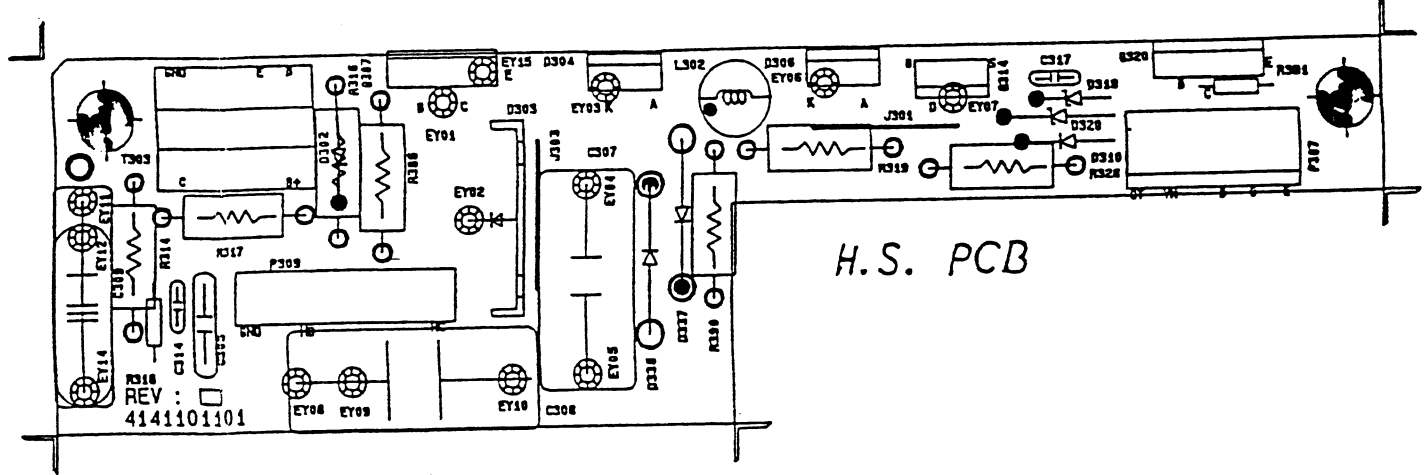
41094501



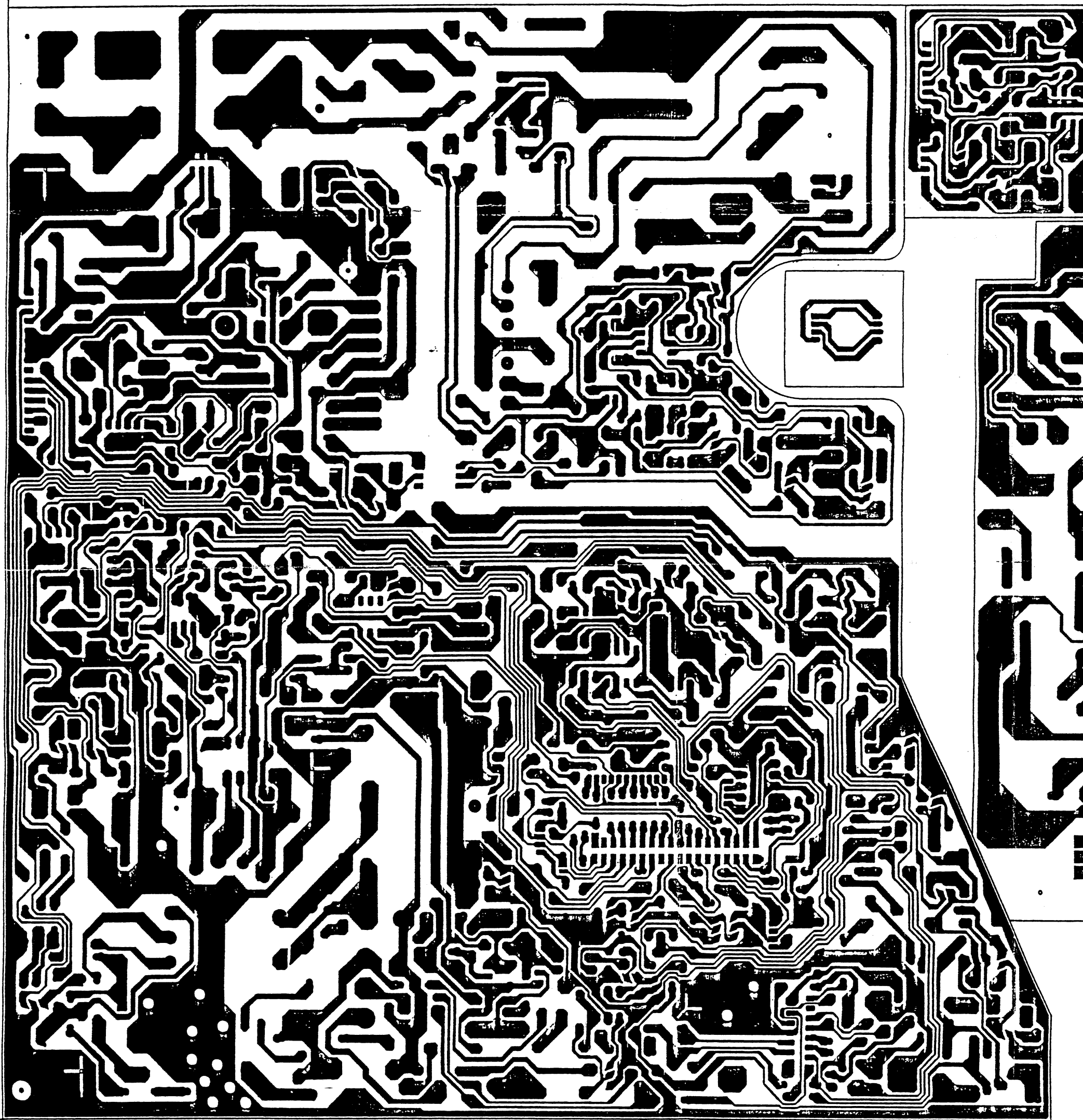
NECK PCB

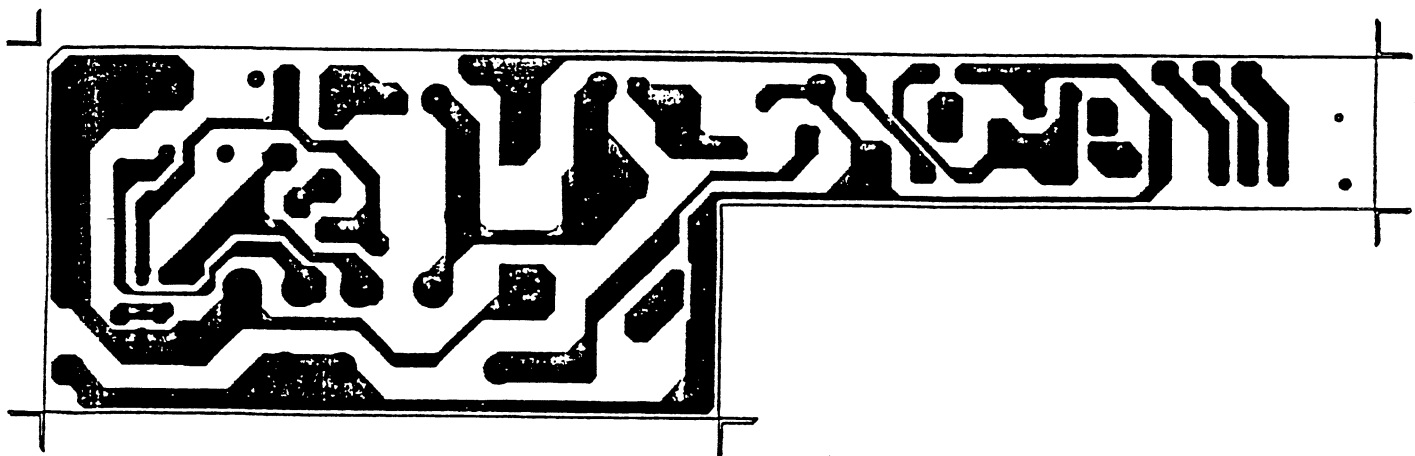
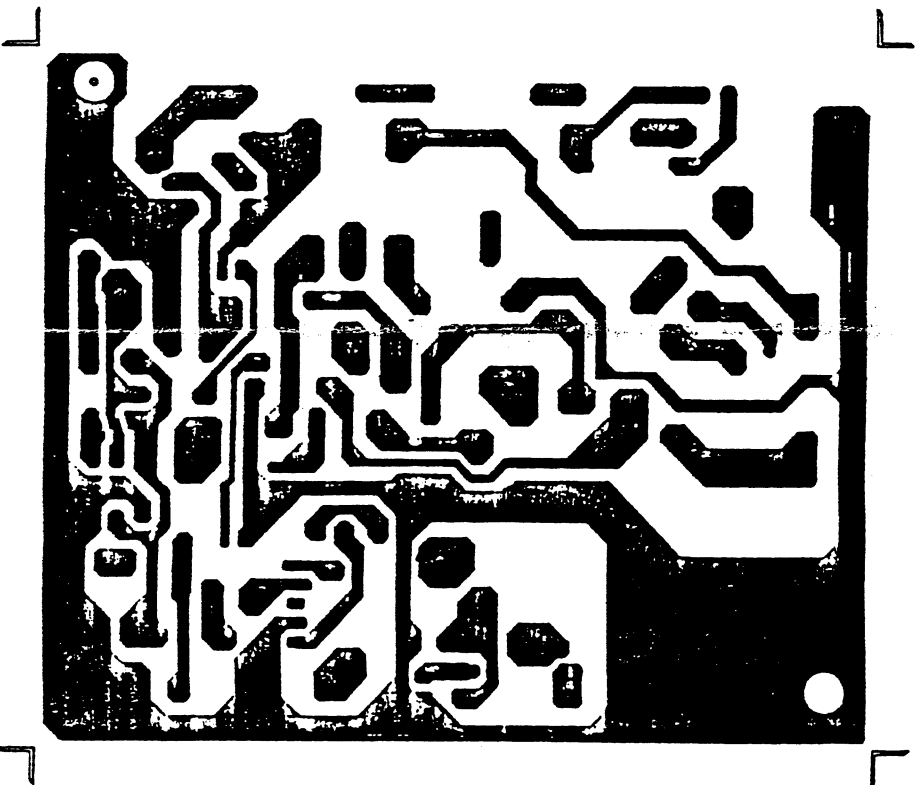
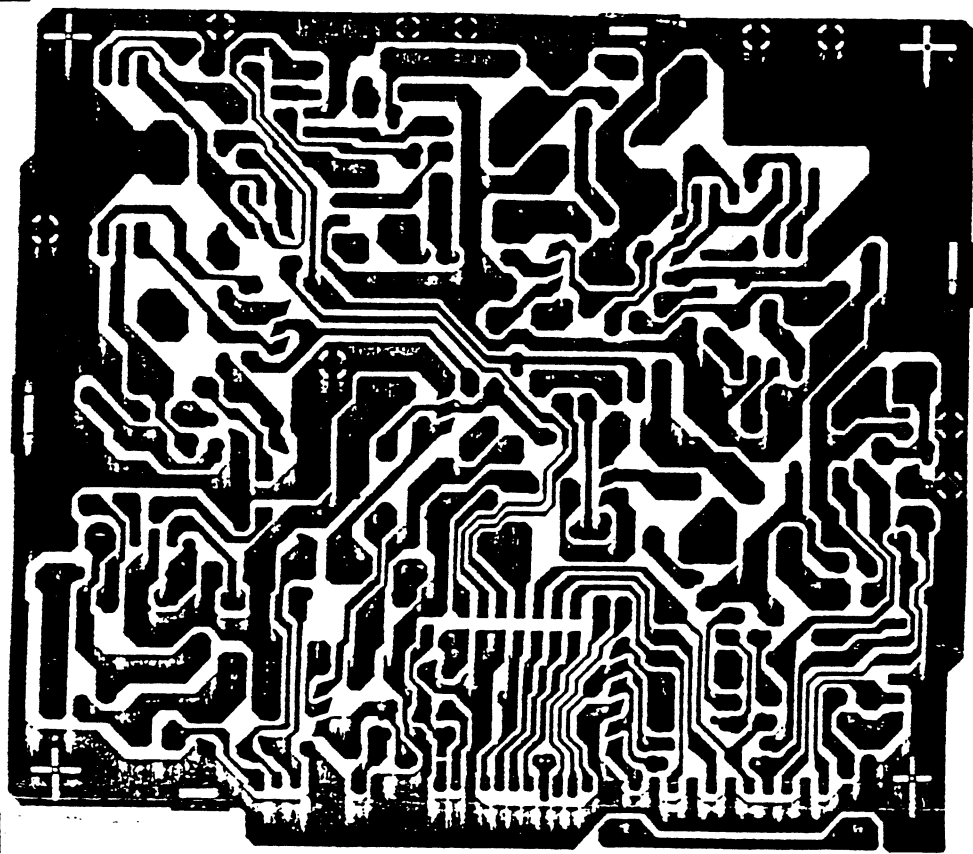
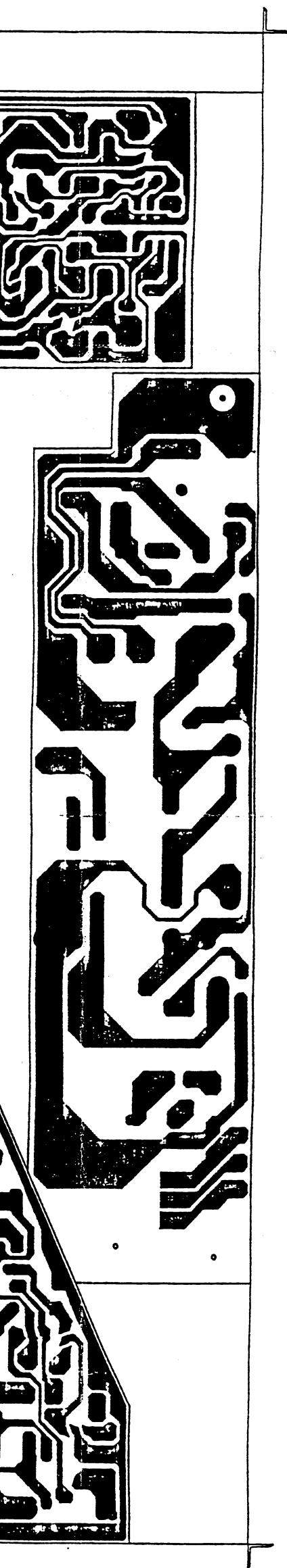


SUB-NECK PCB

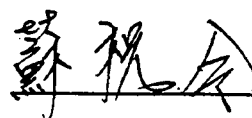


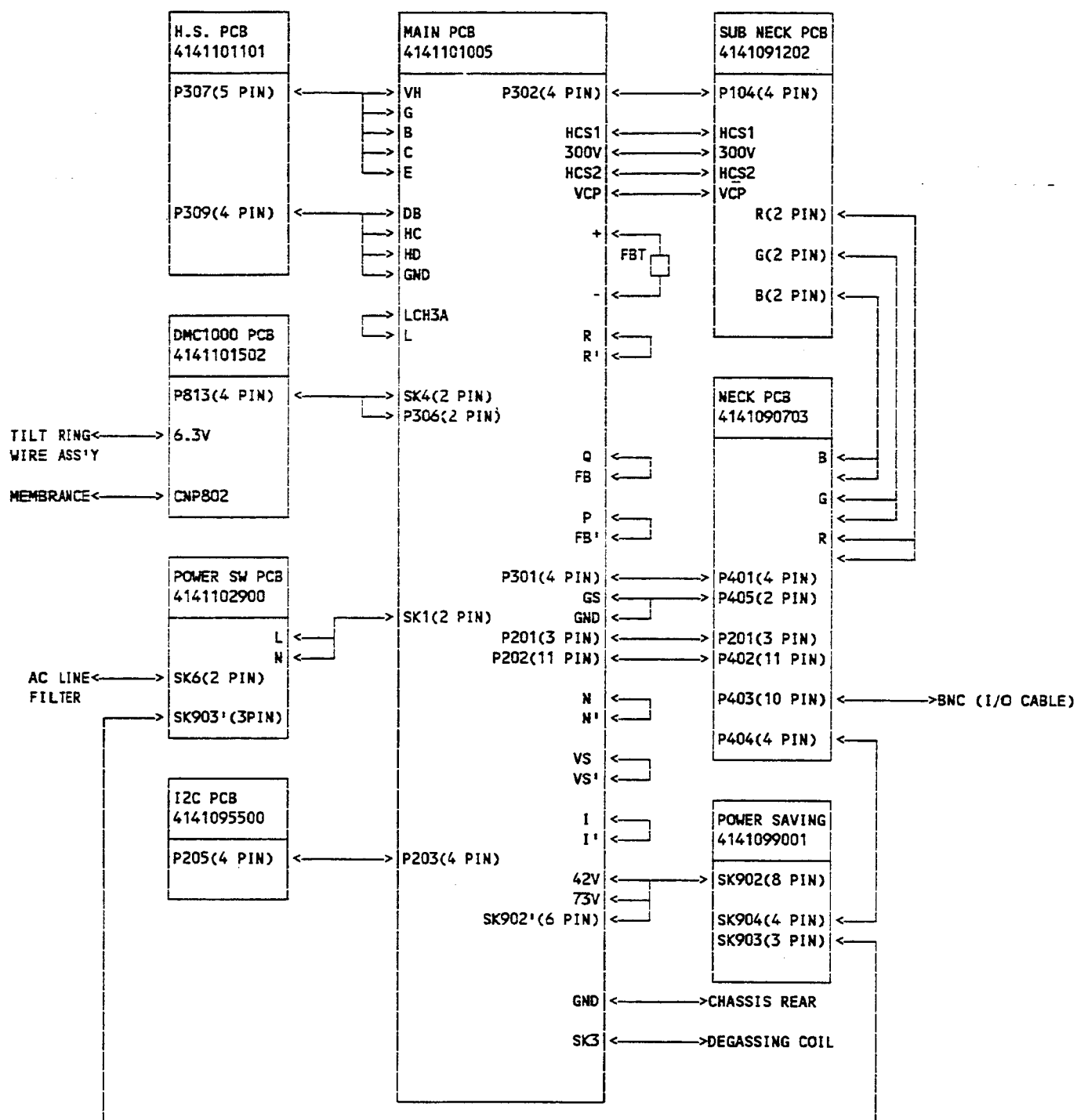
H.S. PCB



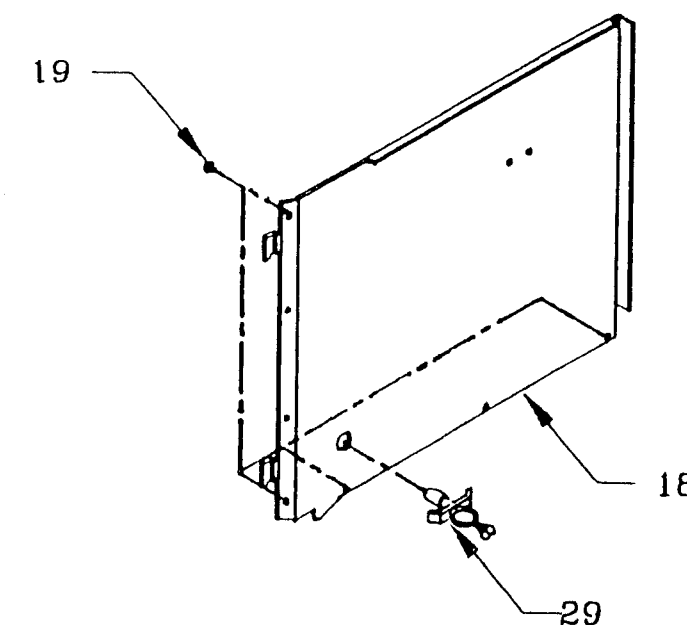


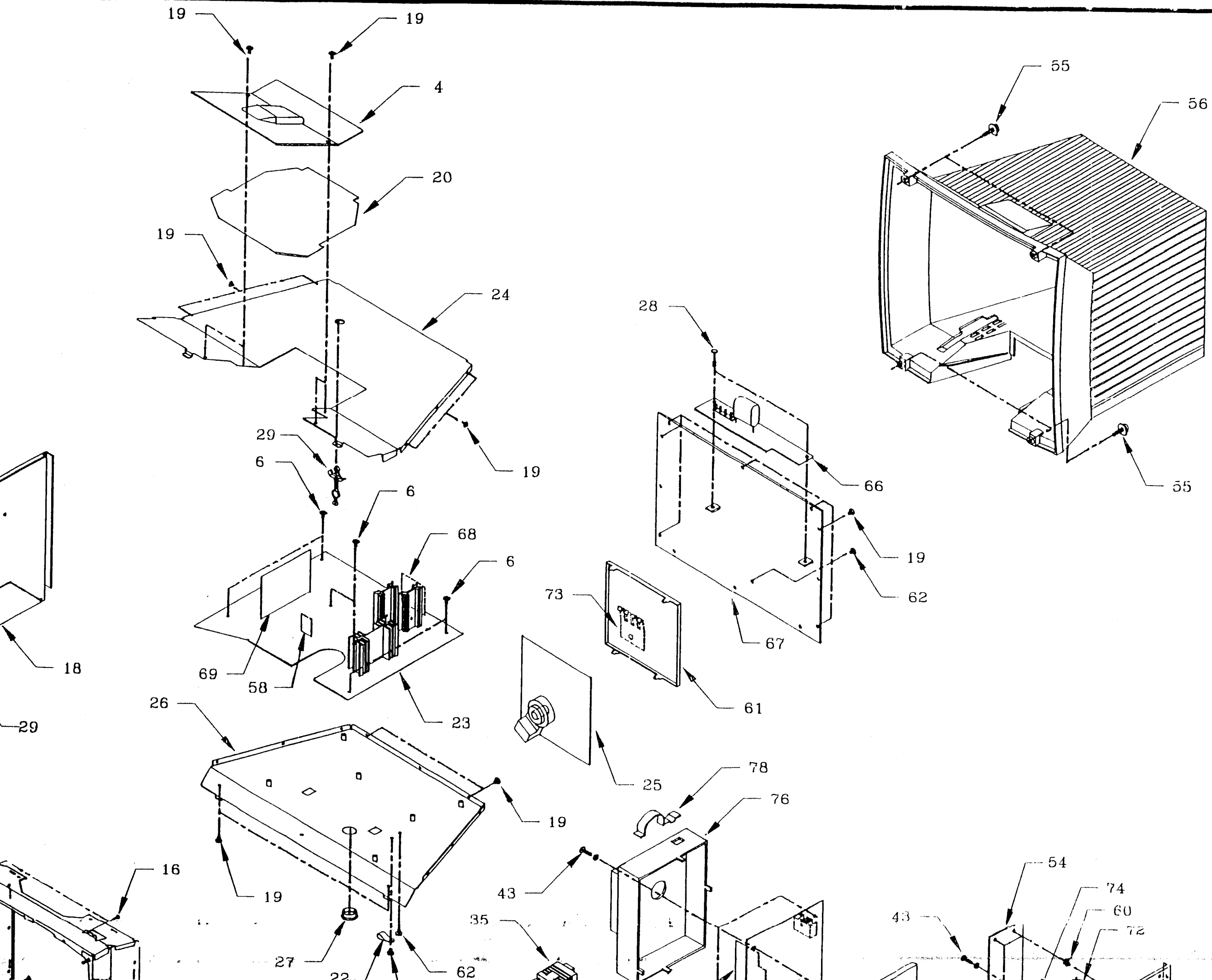
Inter Module Wiring Diagram

CHECKED BY : 

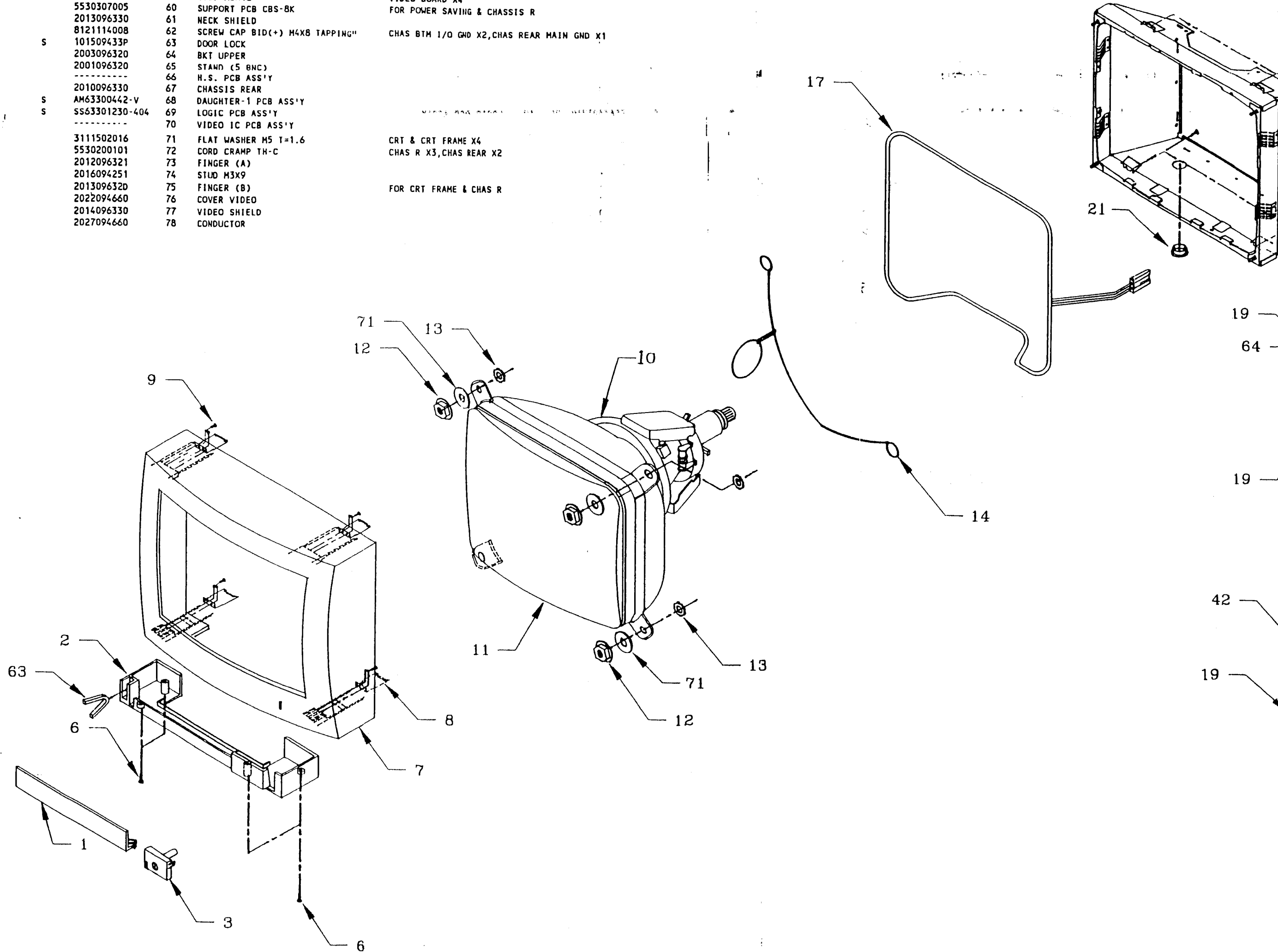


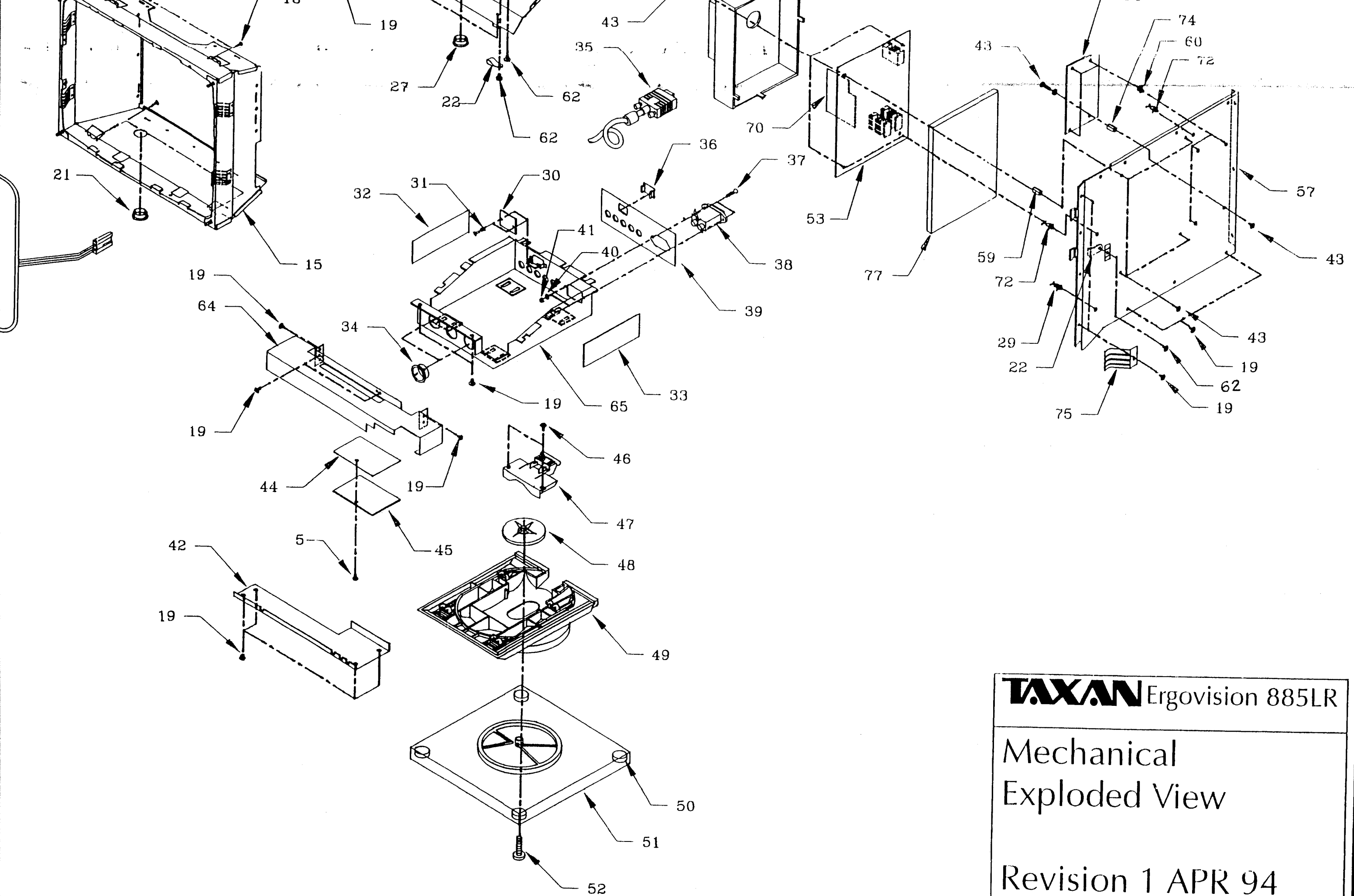
SPARE	Item Number	Index	Description	COMMENT
S	1004096339	1	CONTROL DOOR	
	1008096339	2	CONTROL BOX ASS'Y	
	1013094A36	3	KNOB PUSH	
	2039094330	4	ANODE CAP	
	8504113006	5	SCREW BID(+) M3X6 MACH W/DISK	FOR POWER SW PCB
	8504113008	6	SCREW BIND(+) M3X8 MACH W/DISK	FOR CONTROL BOX & UPPER BKT X1, CONTROL BOX & LOWE R BKT X3, MAIN PCB & CHAS BOTTOM X6
S	1001096339	7	BEZEL	
	2008094251	8	BKT BEZEL	
	8026113012	9	SCREW BIND(+) 2N3C M3X12 SELF	BZL & BKT X8
	C460633010	10	TILT RING WIRE ASS'Y	TILT WIRE
S	7010021117	11	CRT M41KXK27XX10 (K1)	
	3051100050	12	NUT ZINC CHROMATE M5	CRT & CRT FRAME X4
	2018094140	13	TOOTHED LOCK WASHER	CRT & CRT FRAME X4
	C001134720	14	BRAID WIRE ASS'Y	
	2001694235	15	CRT FRAME	
	8504113010	16	SCREW BIND(+) M3X10 MACH W/DIS	FOR BZL ASS'Y & CHAS ASS'Y
	7020176330	17	DEGAUSSING COIL	FOR CRT
	2012096710	18	CHASSIS L	
	8127113006	19	SCREW PAN(+)/HD CAP TAPPING M3	CHAS REAR & CHAS BOTTOM X2 ,CHAS REAR & CHAS R X2,CHAS REAR & CHAS L X2,CRT FRAME & STAND X2,CRT FRAME & CHAS BOTTOM X2,CHAS BOTTOM & CHAS R X2,CHAS BOTTOM & CHAS L X2,CRT FRAME & CHAS L X2,LOWER BKT UPPER & STAND ASS'Y X 6,CRT FRAME & CHAS R X2 FOR BKT UPPER & STAND ASS'Y CHAS TOP & CHAS R X3,CHAS TOP & CHAS L X2
	8127113006	19	SCREW PAN(+)/HD CAP TAPPING M3	
	9019094330	20	ANODE SHEET	
	1006096330	21	SNAP BUSHINGS (NB1722)	FOR CRT FRAME
	2017094030	22	GROUND CLAMP	FOR I/O CABLE
S	AM63305044-V	23	MAIN PCB ASS'Y	
	2004594251	24	CHASSIS TOP	
S	AM63300744-V	25	SUB NECK PCB ASS'Y	
	2024094660	26	CHASSIS (BTM)	
	1023094000	27	BUSHING SNAP	FOR CHASSIS BOTTOM X1
	3060040060	28	RIVET NYLON 4.0X6.0	FOR PCB & CHAS REAR
	5530200102	29	CORD CRAMPER TH-A	FOR CHAS L X1
	1013094180	30	I2C PCB ASS'Y	
	9008094A36	31	REVL 43	FOR I2C COVER
	9007094A36	32	DECO SHEET (L)	
	1006096330	33	DECO SHEET	
S	C710633010	34	SNAP BUSHINGS (NB1722)	FO STAND X2
S	9004096000	35	I/O CABLE ASS'Y	FOR HCS2
	8002113012	36	COVER I2C	
S	7061620129	37	SCREW FLATE HD(+) M3X12	FOR AC SOCKET
	9005096339	38	LINE FILTER 1A5-H33	FILTER
	3211300000	39	DECO PLATE	
	3011100030	40	WASHER SPRING M3 5.2x3.2x0.8	FOR AC SOCKET
	2004096320	41	NUT ISO HEX M3 ZINC	FOR AC SOCKET X2
	8504113006	42	BKT LOWER	
	9010096320	43	SCREW BID(+) M3X6 MACH W/DISK	FOR VIDEO BOARD X4,CHAS R & STUD X4,POWER SAVING X1
	9010096320	44	SW INSULATOR	
S	SS63301420-404	45	POWER SWITCH PCB ASS'Y	
	8037114016	46	SCREW BIND(+) M4X16 HI-LOW	FOR TILT BALL & LATCH
	1009094251	47	LATCH	
	1006094251	48	RETAINER	
	1035094A36	49	TILT BALL	
S	1010094310	50	FOOT	
S	1020094A36	51	BASE-2	
	8081111530	52	SCREW BIND/HD MACH 1/4"-20X30	
S	AM63300244-V	53	NECK PCB ASS'Y	
S	AM63300544-V	54	POWER SAVING PCB ASS'Y	
	8350113016	55	SCREW BIND(+) M3X16 W/S W.F.W.	FOR BZL & CHAS & R.L. ASS'YX4
S	1052094A36	56	COVER REAR	
	2002094660	57	CHASSIS (R)	
S	AM67000944-V	58	H-PRO DAUGHTER PCB ASS'Y	
	2016094230	59	STUD M3X12	VIDEO BOARD X4
	5530307005	60	SUPPORT PCB CBS-8K	FOR POWER SAVING & CHASSIS R
	2013096330	61	NECK SHIELD	
	8121114008	62	SCREW CAP BID(+) M4X8 TAPPING"	CHAS BTM I/O GND X2,CHAS REAR MAIN GND X1
S	101509433P	63	DOOR LOCK	
	2003096320	64	BKT UPPER	
	2001096320	65	STAND (5 BNC)	
	2010096330	66	H.S. PCB ASS'Y	
	AM63300442-V	67	CHASSIS REAR	
S	SS63301230-404	68	DAUGHTER-1 PCB ASS'Y	
	SS63301230-404	69	LOGIC PCB ASS'Y	
	SS63301230-404	70	VIDEO IC PCB ASS'Y	





5530307005	60	SUPPORT PCB CBS-BK	VIDEO BOARD A4
2013096330	61	NECK SHIELD	FOR POWER SAVING & CHASSIS R
8121114008	62	SCREW CAP BID(+) M4X8 TAPPING"	
101509433P	63	DOOR LOCK	CHAS BTM I/O GND X2, CHAS REAR MAIN GND X1
2003096320	64	BKT UPPER	
2001096320	65	STAND (5 BNC)	
-----	66	H.S. PCB ASS'Y	
2010096330	67	CHASSIS REAR	
S AM63300442-V	68	DAUGHTER-1 PCB ASS'Y	
S SS63301230-404	69	LOGIC PCB ASS'Y	
-----	70	VIDEO IC PCB ASS'Y	
3111502016	71	FLAT WASHER M5 T=1.6	CRT & CRT FRAME X4
5530200101	72	CORD CRAMP TH-C	CHAS R X3, CHAS REAR X2
2012096321	73	FINGER (A)	
2016094251	74	STUD M3X9	FOR CRT FRAME & CHAS R
2013096320	75	FINGER (B)	
2022094660	76	COVER VIDEO	
2014096330	77	VIDEO SHIELD	
2027094660	78	CONDUCTOR	





TAXAN Ergovision 885LR

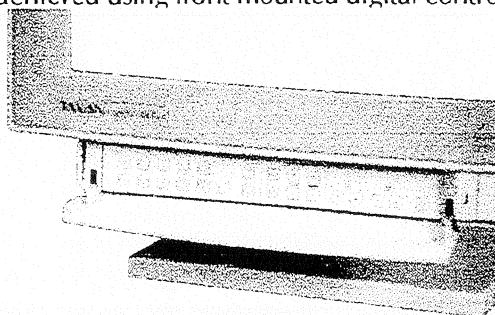
Mechanical
Exploded View

Revision 1 APR 94

Ergovision 885 Basic Disassembly

The Ergovision 885 is a multi frequency high performance colour display with a 17inch diagonal FST 0.26mm dot pitch CRT.

Control of the picture geometry is achieved using a proprietary micro-controller with 15 factory preset signal timings. User programming of additional signal timings and all user functions is achieved using front mounted digital controls as illustrated below:



The cabinet is made up of three main plastic parts, the bezel, the rear cover and the tilt base which is detachable. The tilt base does not normally have to be removed for service access.

THE MAINS POWER LEAD SHOULD BE DISCONNECTED BEFORE ATTEMPTING TO DISASSEMBLE THE UNIT.

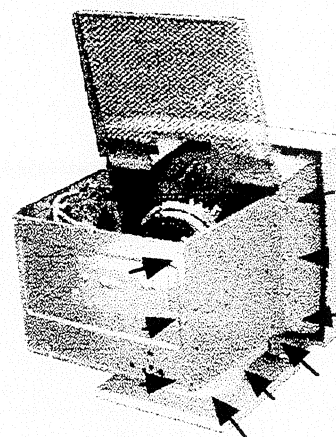
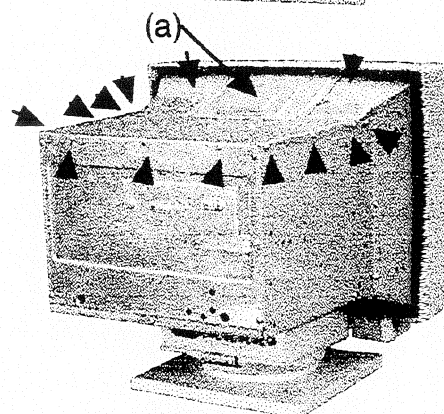
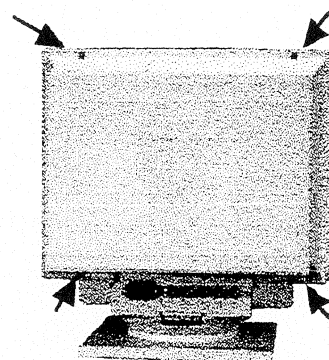
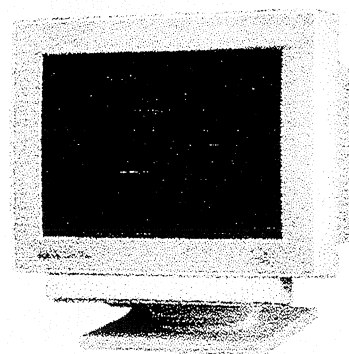
Removal of 4 self-binding screws (shown right) allows the removal of the rear cover and exposes the inner metal casing necessary for RFI screening.

Access to the electronic assemblies begins with the removal of the CRT anode cap shield plate (a). This is held in place with 4 self-tapping screws and two lugs along the top edge. Note that the inner insulating sheet which is attached to this plate is inserted under the surrounding metalwork when the plate is eventually replaced.

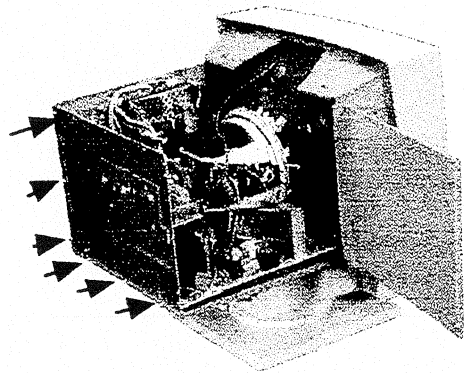
The top plate is removed by removing 13 securing screws as indicated.

This provides access to the CRT deflection yoke and anode cap where hazardous voltages are present when the unit is powered.

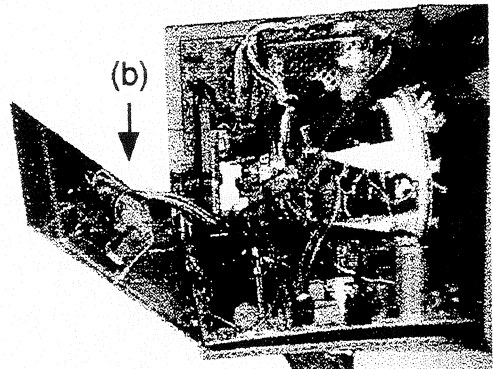
The right hand panel (viewed from behind) should be removed next by removing the 9 screws indicated. This panel is hinged along its forward edge by lugs which interlock with the CRT surround. To remove the plate once the screws have been removed, open the panel outwards and lift it gently off the lugs.



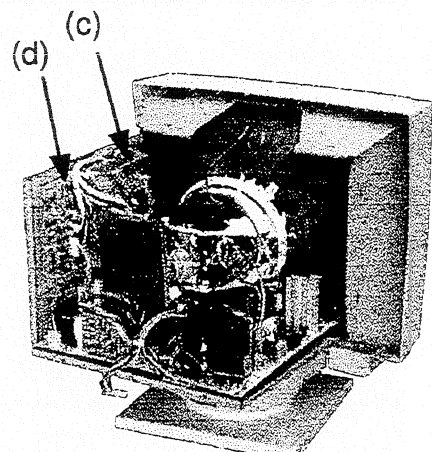
Next, the rear panel is removed by removing the six screw indicated .



One of the power pcbs (b) is mounted on the rear metal panel and the connecting cables to this pcb are only long enough for the panel to be angled to about 45° unless the cables are disconnected.



The final metal panel is difficult to remove because the video processing (c) and amplifier (d) pcbs are mounted on it and again, the length of the connecting cables restricts the movement of the panel until they are disconnected.



There are six screws to remove before the panel may be removed from the main chassis.

Access to the solder side of the main pcb assembly is only possible with the removal of the main pcb , although access to the component side is reasonably good.